S/M No.:CN001N-010R1

Service Manual

Color Television

CHASSIS : CN-001N

Model :

DTQ-14V1FCN/20V1FCN
DTQ-14V5FCN/20V4FCN
DTQ-14J4FCGN/FCCN
DTQ-14V1SCN/15U5SC
DTQ-20U1SSN/20V1SSN
— U.S.A Canada

DTQ-14V1FSN/20V1FSN
DTQ-14V5FSN/20V4FSN
DTQ-14V3FSN/20V3FSN
DTQ-14U1FSN/20U1FSN
— Middle America (AC 110V)

DTQ-14V1FSPN/20V1FSPN
DTQ-14V5FSPN/20V4FSPN
DTQ-14U1FSPN/20U1FSPN
DTQ-14V3SSN/20V3SSN
DTQ-14V5SSPN/15U5SSPN
— Mexico,Chile, Peru (AC 220V)

DTQ-14V1FCN

DTQ-14V3FCN

DTQ-20V4FCN

DTQ-14V5FCN

DTQ-14U1FS

DAEWOO ELECTRONICS CO., LTD

http : //svc.dwe.co.kr Jun. 2002

✔ Caution

: In this Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information,please refer to PPL(Parts Price List) in Service Information Center (http://svc.dwe.co.kr).

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PRODUCT SAFETY SERVICING GUIDELINES FOR AUDIO - VIDEO PRODUCTS

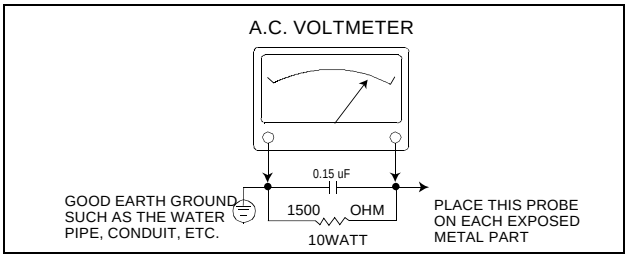
CAUTION : DO NOT ATTEMPT TO MODIFY THIS PRODUCT IN ANY WAY. NEVER PERFORM CUSTOMIZED INSTALLATIONS WITHOUT MANUFACTURER'S APPROVAL. UNAUTHORIZED MODIFICATIONS WILL NOT ONLY VOID THE WARRANTY, BUT MAY LEAD TO YOUR BEING LIABLE FOR ANT RESULTING PROPERTY DAMAGE OR USER INJURY.
SERVICE WORK SHOULD BE PERFORMED ONLY AFTER YOU ARE THOROUGHLY FAMILIAR WITH ALL OF THE FOLLOWING SAFETY CHECKS AND SERVICING GUIDELINES. TO DO OTHERWISE, INCREASES THE RISK OF POTENTIAL HAZARDS AND INJURY TO THE USER.
WHILE SERVICING, USE AN ISOLATION TRANSFORMER FOR PROTECTION FROM A.C. LINE SHOCK.

SAFETY CHECKS

AFTER THE ORIGINAL SERVICE PROBLEM HAS BEEN CORRECTED, A CHECK SHOULD BE MADE OF THE FOLLOWING:

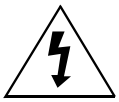
SUBJECT:FIRE & SHOCK HAZARD

1. BE SURE THAT ALL COMPONENTS ARE POSITIONED IN SUCH A WAY AS TO AVOID POSSIBILITY OF ADJACENT COMPONENT SHORTS. THIS IS ESPECIALLY IMPORTANT ON THOSE MODULES WHICH ARE TRANSPORTED TO AND FROM THE REPAIR SHOP.
2. NEVER RELEASE A REPAIR UNLESS ALL PROTECTIVE DEVICES SUCH AS INSULATORS, BARRIERS, COVERS, SHIELDS, STRAIN RELIEFS, POWER SUPPLY CORDS, AND OTHER HARDWARE HAVE BEEN REINSTALLED PER ORIGINAL DESIGN. BE SURE, THAT THE SAFETY PURPOSE OF THE POLARIZED LINE PLUG HAS NOT BEEN DEFEATED.
3. SOLDERING MUST BE INSPECTED TO DISCOVER POSSIBLE COLD SOLDER JOINTS, SOLDER SPLASHES OF SHARP SOLDER POINTS. BE CERTAIN TO REMOVE ALL LOOSE FOREIGN PARTICLES.
4. CHECK FOR PHYSICAL EVIDENCE OF DAMAGE OR DETERIORATION TO PARTS AND COMPONENTS, FOR FRAYED LEADS, DAMAGED INSULATION (INCLUDING A.C. CORD), AND REPLACE IF NECESSARY. FOLLOW ORIGINAL LAYOUT, LEAD LENGTH AND DRESS.
5. NO LEAD OR COMPONENT SHOULD TOUCH A RECEIVING TUBE OR A RESISTOR RATED AT 1 WATT OR MORE. LEAD TENSION AROUND PROTRUDING METAL SURFACES MUST BE AVOIDED.
6. ALL CRITICAL COMPONENTS SUCH AS FUSES, FLAMEPROOF RESISTOR, CAPACITORS, ETC. MUST BE REPLACED WITH EXACT FACTORY TYPES. DO NOT USE REPLACEMENT COMPONENTS OTHER THAN THOSE SPECIFIED OR MAKE UNRECOMMENDED CIRCUIT MODIFICATIONS.
7. AFTER RE-ASSEMBLY OF THE STE ALWAYS PERFORM AN A.C. LEAKAGE TEST ON ALL EXPOSED METALLIC PARTS OF THE CABINET. (THE CHANNEL SELECTOR KNOB, ANTENNA TERMINALS, HANDLE AND SCREWS) TO BE SURE THE SET IS SAFE TO OPERATE WITHOUT DANGER OF ELECTRICAL SHOCK. DO NOT USE A LINE ISOLATION TRANSFORMER DURING THIS TEST USE AN A.C. VOLTMETER, HAVING 5000 OHMS PER VOLT OR MORE SENSITIVITY, IN THE FOLLOWING MANNER : CONNECT A 1500 OHM 10 WATT RESISTOR, PARALLELED BY A .15 MFD. 150V A.C. TYPE CAPACITOR BETWEEN A KNOWN GOOD EARTH GROUND (WATER POPE, CONDUIT, ETC.) AND THE EXPOSED METALLIC PARTS, ONE AT A TIME. MEASURE THE A.C. VOLTAGE ACROSS THE COMBINATION OF 1500 OHM RESISTOR AND .15 MFD CAPACITOR. REVERSE THE A.C. PLUG AND REPEAT A.C. VOLTAGE MEASUREMENTS FOR EACH EXPOSED METALLIC PART. VOLTAGE MEASURED MUST NOT EXCEED .75 VOLTS R.M.S THIS CORRESPONDS TO 0.5 MILLIAMP A.C. NAY VALUE EXCEEDING THIS LIMIT CONSTITUTES A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED IMMEDIATELY.


A.C. VOLTMETER
0.15 uF
GOOD EARTH GROUND SUCH AS THE WATER PIPE, CONDUIT, ETC.
1500 OHM
10WATT
PLACE THIS PROBE ON EACH EXPOSED METAL PART

SUBJECT : GRAPHIC SYMBOLS

THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK.



THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF IMPORTANT SAFETY INFORMATION ON SERVICE LITERATURE.

SUBJECT : X-RADIATION

1. BE SURE PROCEDURES AND INSTRUCTIONS TO ALL SERVICE PERSONNEL COVER THE SUBJECT OF X-RADIATION. THE ONLY POTENTIAL SOURCE OF X-RAYS IN CURRENT T.V. RECEIVERS IS THE PICTURE TUBE. HOWEVER, THIS TUBE DOES NOT EMIT X-RAYS WHEN THE HIGH VOLTAGE IS AT THE FACTORY SPECIFIED LEVEL. THE PROPER VALUE IS GIVEN IN THE APPLICABLE SCHEMATIC. OPERATION AT HIGHER VOLTAGES MAY CAUSE A FAILURE OF THE PICTURE TUBE OR HIGH VOLTAGE SUPPLY AND UNDER CERTAIN CIRCUMSTANCES, AMY PRODUCE RADIATION IN EXCESS OF DESIRABLE LEVELS.
2. ONLY FACTORY SPECIFIED C.R.T ANODE CONNECTORS MUST BE USED. DEGAUSSING SHIELDS ALSO SERVE AS X-RAY SHIELD IN COLOR SETS. ALWAYS RE-INSTALL THEM.
3. IT IS ESSENTIAL THAT SERVICE PERSONNEL HAVE AVAILABLE AN ACCURATE AND RELIABLE HIGH VOLTAGE METER. THE CALIBRATION OF THE METER SHOULD BE CHECKED PERIODICALLY AGAINST A REFERENCE STANDARD. SUCH AS THE ONE AVAILABLE AT YOUR DISTRIBUTOR.
4. WHEN THE HIGH VOLTAGE CIRCUITRY IS OPERATING PROPERLY THERE IS NO POSSIBILITY OF AN X-RADIATION PROBLEM. EVERY TIME A COLOR CHASSIS IS SERVICED, THE BRIGHTNESS SHOULD BE RUN UP AND DOWN WHILE MONITORING THE HIGH VOLTAGE WITH A METER TO BE CERTAIN THAT THE HIGH VOLTAGE DOES NOT EXCEED THE SPECIFIED VALUE AND THAT IT IS REGULATING CORRECTLY. WE SUGGEST THAT YOU AND YOUR SERVICE ORGANIZATION REVIEW TEST PROCEDURES SO THAT VOLTAGE REGULATION IS ALWAYS CHECKED AS A STANDARD SERVICING PROCEDURE, AND THAT THE HIGH VOLTAGE READING BE RECORDED ON EACH CUSTOMER'S INVOICE.
5. WHEN TROUBLESHOOTING AND MAKING TEST MEASUREMENTS IN A PRODUCT WITH A PROBLEM OF EXCESSIVE HIGH VOLTAGE, AVOID BEING UNNECESSARILY CLOSE TO THE PICTURE TUBE AND THE HIGH VOLTAGE SUPPLY. DO NOT OPERATE THE PRODUCT LONGER THAN IS NECESSARY TO LOCATE THE CAUSE OF EXCESSIVE VOLTAGE.
6. REFER TO HV, B+ AND SHUTDOWN ADJUSTMENT PROCEDURES DESCRIBED IN THE APPROPRIATE SCHEMATIC AND DIAGRAMS (WHERE USED).

SUBJECT : IMPLOSION

1. ALL DIRECT VIEWED PICTURE TUBES ARE EQUIPPED WITH AN INTEGRA IMPLOSION PROTECTION SYSTEM. BUT CARE SHOULD BE TAKEN TO AVOID DAMAGE DURING INSTALLATION. AVOID SCRATCHING THE TUBE. OF SCRATCHED REPLACE IT.
2. USE ONLY RECOMMENDED FACTORY REPLACEMENT TUBES.

SUBJECT : TIPS ON PROPER INSTALLATION

1. NEVER INSTALL ANY PRODUCT IN A CLOSED-IN RECESS, CUBBYHOLE OR CLOSELY FITTING SHELF SPACE, OVER OR CLOSE TO HEAT DUCT, OR IN THE PATH OF HEATED AIR FLOW.
2. AVOID CONDITIONS OF HIGH HUMIDITY SUCH AS: OUTDOOR PATIO INSTALLATIONS WHERE DEW IS A FACTOR, NEAR STEAM RADIATORS WHERE STEAM LEAKAGE IS A FACTOR, ETC.
3. AVOID PLACEMENT WHERE DRAPERIES MAY OBSTRUCT REAR VENTING. THE CUSTOMER SHOULD ALSO AVOID THE USE OF DECORATIVE SCARVES OR OTHER COVERINGS WHICH MIGHT OBSTRUCT VENTILATION.
4. WALL AND SHELF MOUNTED INSTALLATIONS USING A COMMERCIAL MOUNTING KIT, MUST FOLLOW THE FACTORY APPROVED MOUNTING INSTRUCTIONS. A PRODUCT MOUNTED TO A SHELF OR PLATFORM MUST RETAIN ITS ORIGINAL FEET (OR THE EQUIVALENT THICKNESS IN SPACERS)TO PROVIDE ADEQUATE AIR FLOW ACROSS THE BOTTOM, BOLTS OR SCREWS USED FOR FASTENERS MUST NOT TOUCH ANY PARTS OR WIRING. PERFORM LEAKAGE TEST ON CUSTOMIZED INSTALLATIONS.
5. CAUTION CUSTOMERS AGAINST THE MOUNTING OF A PRODUCT ON SLOPING SHELF OR A TILTED POSITION, UNLESS THE PRODUCT IS PROPERLY SECURED.
6. A PRODUCT ON A ROLL-ABOUT CART SHOULD BE STABLE ON ITS MOUNTING TO THE CART. CAUTION THE CUSTOMER ON THE HAZARDS OF TRYING TO ROLL A CART WITH SMALL CASTERS ACROSS THRESHOLDS OR DEEP PILE CARPETS.
7. CAUTION CUSTOMERS AGAINST THE USE OF A CART OR STAND WHICH HAS NOT BEEN LISTED BY UNDERWRITERS LABORATORIES. INC. FOR USE WITH THEIR SPECIFIC MODEL OF TELEVISION RECEIVER OR GENERICALLY APPROVED FOR USE WITH T.V.S OF THE SAME OR LARGER SCREEN SIZE.
8. CAUTION CUSTOMERS AGAINST THE USE OF EXTENSION CORDS, EXPLAIN THAT A FOREST OF EXTENSIONS SPROUTING FROM A SINGLE OUTLET CAN LEAD TO DISASTROUS CONSEQUENCES TO HOME AND FAMILY.

PRODUCT SAFETY SERVICING GUIDELINES FOR COLOR TELEVISION RECEIVERS

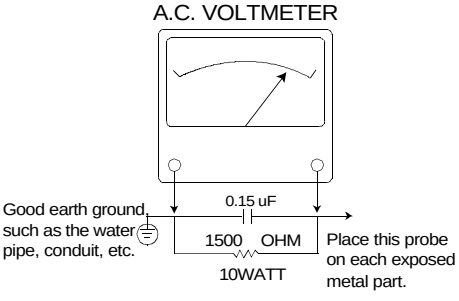
CAUTION : Do not attempt to modify this product in any way. Unauthorized modifications will not only void the warranty, but may lead to your being liable for any resulting property damage or user injury.
Service work should be performed only after you are thoroughly familiar with all of the following safety checks and servicing guidelines. To do otherwise, increases the risk of potential hazards and injury to the user.

SAFETY CHECKS

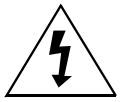
After the original service problem has been corrected, a check should be made of the following:

SUBJECT : FIRE & SHOCK HAZARD

1. Be sure that all components are positioned in such a way as to avoid possibility of adjacent component shorts. This is especially important on those chassis which are transported to and from the repair shop.
2. Never release a repair unless all protective devices such as insulators, barriers, covers, shields, strain reliefs, and other hardware have been reinstalled per original design.
3. Soldering must be inspected to discover possible cold solder joints, frayed leads, damaged insulation (including A.C. cord), solder splashes or sharp solder points. Be certain to remove all loose foreign particals.
4. Check for physical evidence of damage or deterioration to parts and components, and replace if necessary follow original layout, lead length and dress.
5. No leads or components should touch a receiving tube or a resistor rated at 1 watt or more. Lead tension around protruding metal surfaces must be avoided.
6. All critical components such as fuses, flameproof resistors, capacitors, etc. must be replaced with exact factory types. Do not use replacement components other than those specified or make unrecommended circuit modifications.
7. After re-assembly of the set always perform an A.C. leakage test on all exposed metallic parts of the cabinet, (the channel selector knob, antenna terminals, handle and screws) to be sure the set is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this test. Use an A.C. voltmeter, having 5000 ohms per volt or more sensitivity, in the following manner : connect a 1500 ohm 10 watt resistor, paralleled by a 15 mfd. 150V A.C. type capacitor between a known good earth ground (9water pipe, conduit, etc.) and the exposed metallic parts, one at a time. Measure the A.C. voltage across the combination of 1500 ohm resistor and 0.15 MFD capacitor. Reverse the A.C. plug and repeat A.C. voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.75 volts R.M.S. This corresponds to 0.5 milliamp A.C. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.

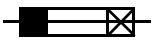

A.C. VOLTMETER
0.15 uF
Good earth ground, such as the water pipe, conduit, etc.
1500 OHM
10WATT
Place this probe on each exposed metal part.

GRAPHIC SYMBOLS :



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the service personnel to the presence of uninsulated "dangerous voltage" that may be of sufficienty magnitude to constitute a risk of electric shock.

The exclamation point within an equilateral triangle is intended to alert the service personnel to the presence of important safety information in service literature.



Fuse symbol is printed on pcb adjacent to the fuse, with "RISK OF FIRE REPLACE FUSE AS MARKED". The symbol is explained in the service manual with the following wording or equivalent.

"CAUTION : FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE (4A, 125V)" and "**ATTENTION**: AFIN D'ASSU UNE PROTECTION PERMANENTE CONTRE LES RISQUES D INCENDIE, REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE ET DE "4A, 125V".

SUBJECT : X-RADIATION

1. Be sure procedures and instructions to all service personnel cover the subject of X-rays in current T.V. receivers is the picture tube. However, this tube does not emit X-rays when the high voltage is at the factory specified level. The proper value is given in the applicable schematic. Operation at higher voltages may cause a failure of the picture tube or high voltage supply and, under certain circumstances, may produce radiation in excess of desirable levels.
2. Only factory specified C.R.T. anode connectors must be used. Degaussing shields also serve as X-ray shield in color sets. Always re-install them.
3. It is essential that the serviceman has available an accurate and reliable high voltage meter. The calibration of the meter should be checked perio - dically against a reference standard. Such as the one available at your distributor.
4. When the high voltage circuitry is operating properly there is no possibility of an X-radiation problem. Every time a color chassis is serviced, the brightness should be run up and down while monitoring the high voltage with a meter to be certain that the high voltage does not exceed the specified value and that it is regulating correctly. We suggest that you and your service organization review test procedures so that voltage regulation is always checked as a standard servicing procedure. And that the high voltage reading be recorded on each customer's invoice.
5. When troubleshooting and making test measurements in a receiver with a problem of excessive high voltage, avoid being unnecessarily close to the picture tub eand the high voltage compartment.
   Do not operate the chassis longer than is necessary to locate the cause of excessive voltage.
6. Refer to HV, B+and Shutdown adjustment procedures described in the appropriate schematic and diagrams(where used).

SUBJECT : IMPLOSION

1. All direct viewed picture tubes are equipped with an integral implosion protection system, but care should be taken to avoid damage during installation. Avoid scratching the tube. If scratched, replace it.
2. Use only recommended factory replacement tubes.

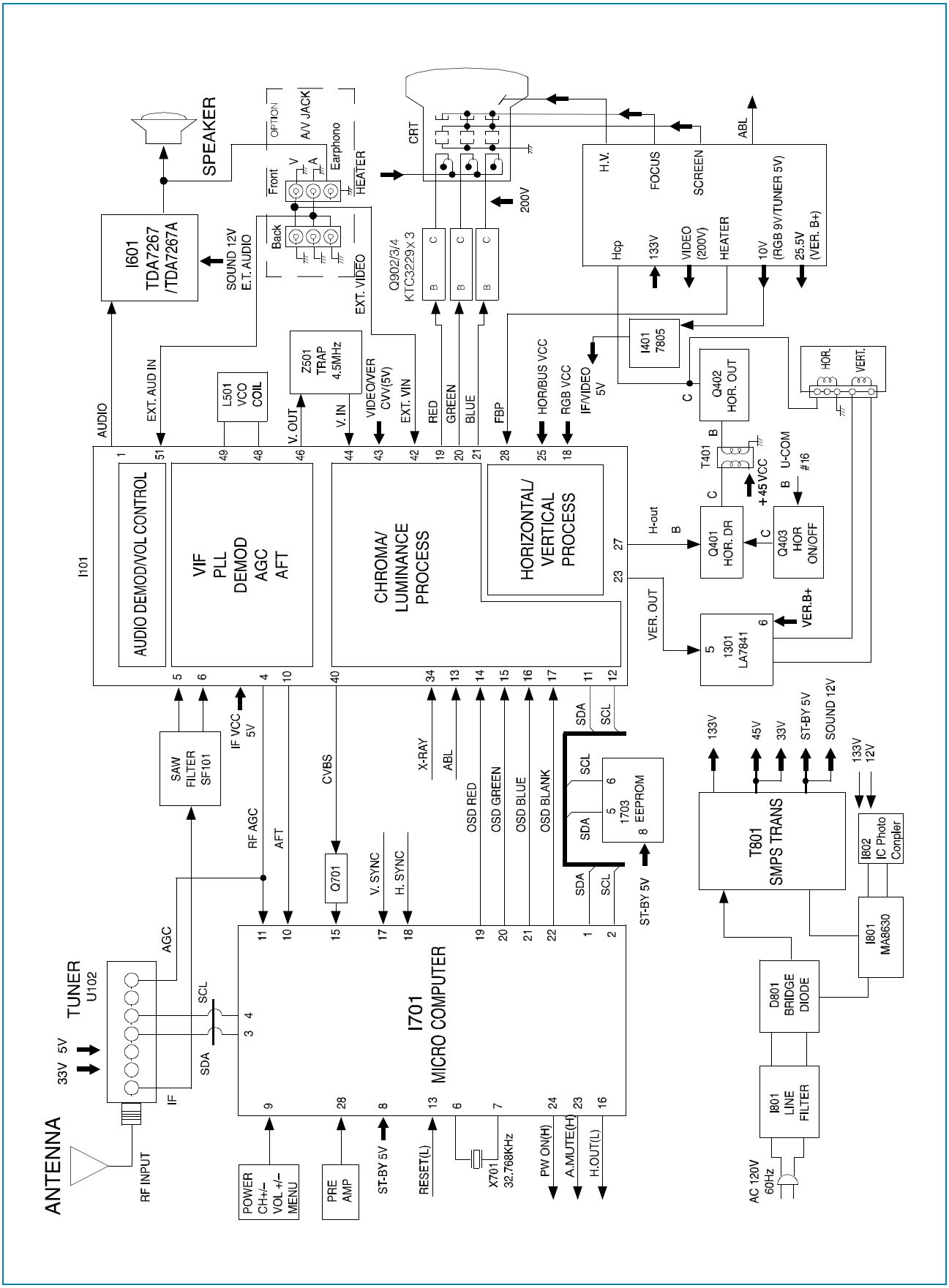
SUBJECT : TIPS ON PROPER INSTALLATION

1. Never install any receiver in closed-in recess, cubbyhole or closely fitting shelf space over, or close to heat duct, or in the path of heated air flow.
2. Avoid conditions of high humidity such as : Outdoor patio installations where dew is a factor. Near steam radiators where steam leakage is a factor, etc.
3. Avoid placement where draperies may obstruct rear venting. The customer should also avoid the use of decorative scarves or other coverings which might obstruct ventilation.
4. Wall and shelf mounted installations using a commercial mounting kit, must follow the factory approved mounting instructions. A receiver mounted to a shelf or platform must retain its original feet(or the equivalent thickness in spacers) to provide adequate are flow across the bottom, bolts or screws used for fasteners must not touch and parts or wiring. Perform leakage test on customized installations.
5. Caution customers against the mounting of a receiver on sloping shelf or a tilted position, unless the receiver is properly secured.
6. A receiver on a roll-about cart should be stable on its mounting to the cart. Caution the customer on the hazards of trying to roll a cart with small casters across thresholds or deep pile carpets.
7. Caution customers against the use of a cart or stand which has not been listed by underwriters laboratories, inc. For use with their specific model of television receiver or generically approved for use with T.V.'s of the same or larger screen size.

SPECIFICATIONS

ITEMS \ MODEL	DTQ-14/20V1FCN DTQ-14V5/20V4FCN DTQ-14/20V1FSN DTQ-14V5/20V4FSN DTQ-14/20V3FSN	DTQ-14/20U1FSN	DTQ-14/20U1FSPN	DTQ-14/20V1FSPN DTQ-14V5/20V4FSPN	REMARKS
TV STANDARD	NTSC-M				
POWER INPUT	AC 120V 60 Hz		AC 220V 50/60 Hz		
POWER CONSUMPTION	14 = 55W 20 = 68W				
TUNING SYSTEM	Frequency Synthesizer (FS) Tuning System				
TUNING RANGES	VHF : 2 ~ 13 (12) UHF : 14 ~ 69 (56) CATV : 1 ~ 125 (125)				
SOUND OUTPUT	1.3 W	1.3 W+1.3 W		1.3 W	
SPEAKER	3 W 8 ohm				
ANTENNA INPUT IMPEDANCE	75 ohm Unbalanced				
AUXILIARY INPUT TERMINAL	Front : Video, Audio Rear : Video, Audio				
INTERMEDIATE FREQUENCIES	Picture IF Carrier Frequency : 45.75 MHz Sound IF Carrier Frequency : 41.25 MHz Color Sub-Carrier Frequency : 42.17 MHz				
REMOTE CONTROL	R-43A01				
SPECIAL FUNCTIONS	3-Language OSD With CAPTION Wake-up On/Off Time Sleep Timer Power Restore				

BLOCK DIAGRAM



ALIGNMENT INSTRUCTIONS

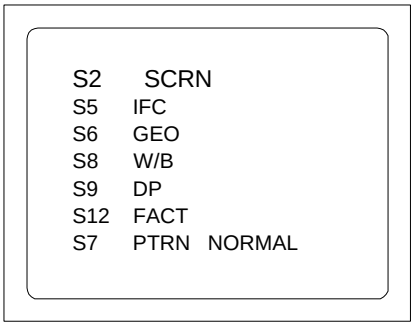
1. SERVICE MODE ADJUSTMENTS

Follow the steps below whenever service adjustment is required. See Table- A and Table- B to determine if service adjustments are required.

1) How to enter the service mode using the user remote control.

- Turn the set on.
- Direct the remote control to the reception window of TV.
- Push buttons of remote control in sequence as follows.

  1 ® MUTE ® DISPLAY ® MUTE
- Then, the screen will appear as follows.



- Using the channel up or channel down button, select the item you wish to adjust.
  (The color of selected item turns into the red.)
- Press the volume up or down button to enter in the service mode you wish to adjust.

2) How to memorize the adjusted values in the service mode.

- Must press **DISPLAY** button the state which the screen is displaying each of service menus after all adjustments are completed each of all service menu.

Table-A : Adjust the values of service mode when a part is replaced.

PART REPLACED	ADJUSTMENT		NOTES
	NECESSARY	UNNECESSARY	
I701 (U-COM)		O	Data is stored in I703.
I101 (MAIN)		O	
I703 (EEPROM)	O		Initial setting values are written from I701. Adjusting Items S5 RFAGCD S6 H.PHASE/V.POSI/V.SIZE S8 RD/BD/RB/GB/BB S9 Subbrightness
CRT	O		Adjust items related to picture tube only.(White Balance adjustment)

Table-B

MODE	ADJUSTMENT ITEMS	DATA		REMARKS
		INITIAL	RANGE	
S2	Screen Adjustment	-	-	
S5	Auto RF AGC	-	-	
	Video Level (VIDEOL)	7	0 ~ 7	Must be set to 7
	RF AGC Delay (RFAGCD)	*	0 ~ 63	Align RF AGC threshold
	FM Level (FM.LEV)	8	0 ~ 31	Must be set to 20
	AGC Point	3.75	-	Select AGC reference voltage
	A/D VALUE	-	-	
S6	Horizontal Phase(H.PHASE)	*	0 ~ 31	Align sync to flyback pulse, using internal cross pattern(S7)
	Vertical Position (V.POSI)	*	0 ~ 63	Align vertical DC bias, using internal cross pattern(S7)
	Vertical Size (V.SIZE)	*	0 ~ 127	Align vertical amplitude, using internal cross pattern(S7)
	NO SD POWER OFF	YES	-	Automatically turn off in 15min for no received signal.
	Vertical S-Correction (V SC)	0	0 ~ 31	Must be set to 6
	Vertical Linearity (V LIN)	20	0 ~ 31	Must be set to 16
S7	Internal Black	-	-	Display internal BLACK pattern
	Internal 100% White	-	-	Display internal 100% WHITE
	Internal 60% White	-	-	Display internal 60% WHITE
	Internal Cross Pattern	-	-	Display internal CROSS pattern
S8	Red Drive (RD)	*	0 ~ 127	Align RED OUT AC level
	Green Drive (GD)	10	0 ~ 15	Must be set to 10
	Blue Drive (BD)	*	0 ~ 127	Align BLUE OUT AC level
	Red Bias (RB)	*	0 ~ 255	Align RED OUT DC level
	Green Bias (GB)	*	0 ~ 255	Align GREEN OUT DC level
	Blue Bias (BB)	*	0 ~ 255	Align BLUE OUT DC level
S9	Subbrightness	*	0 ~ 127	Align common RGB DC level
	Contrast	10	0 ~ 27	
	Tint	27	0 ~ 27	
	Color	15	0 ~ 27	
S12	Forwarding Mode	-		Factory Initialization

* indicates the items with different settings each of sets

2. ASSEMBLY ADJUSTMENTS

1) SCREEN ADJUSTMENT (S2)

- Enter the service mode and select service adjustment S2.
- You cna see the one horizontal line on the screen.
- Adjust the Screen Control Volume (located on FBT) so that the horizontal line onscreen may be disappeared.
- Press the volume up or down button to exit in the screen adjustment mode.

NOTE

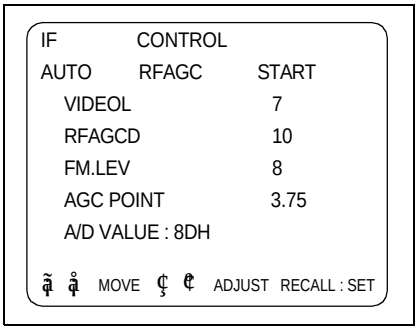
IN THE SCREEN ADJUSTMENT MODE, DONT PRESS OTHER BUTTONS EXCEPT VOLUME UP OR DOWN BUTTON.

2) FOCUS ADJUSTMENT

- Turn in a local station and adjust the Focus Control knob (located on FBT) for best picture details at high light condition.

3) RF AGC DELAY ADJUSTMENT (S5)

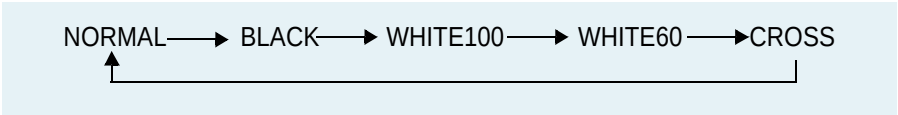
- Receive a good local channel.
- Enter the service mode and select service adjustment S5.
- You can see the OSD as shown in below.



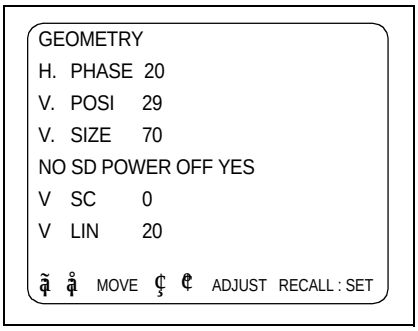
- Select RFAGCD item, press the volume up or down button until noise or beat in picture disappears.
- Press the DISPLAY button to memorize the data.

4) GEOMETRIC ADJUSTMENTS (S6)

- Enter the service mode and select service adjustment S7.
- Whenever you select the "S7" using the volume up or down button, the screen is changing like this.



- Using the volume up or down button, select internal cross pattern.
- Select service adjustment S6
- You can see the OSD as shown in below.



4-1. Horizontal Position Adjustment

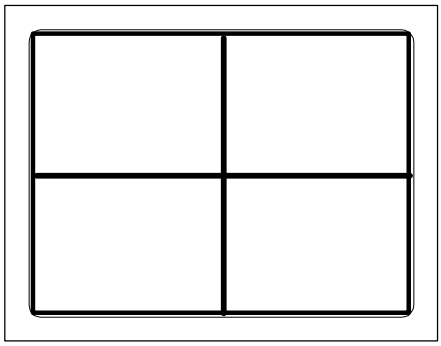
- Select H.PHASE item, adjust H.PHASE data value to obtain proper horizontal centering of the internal cross pattern at the left and right of the screen.

4-2. Vertical Position Adjustment

- Select V.POSI item, adjust V.POSI data value to center the raster properly on thescreen.

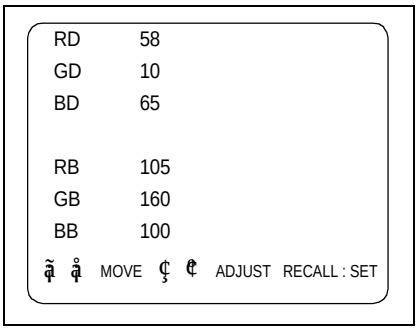
4-3. Vertical Size Adjustment

- Select "V.SIZE" item, adjust "V.SIZE" data value to proper vertical size as follows.



5) WHITE BALANCE ADJUSTMENT(S8)

- Receive a good local channel.
- Enter the service mode and select service adjustment S8.
- You can see the OSD as shown in below.

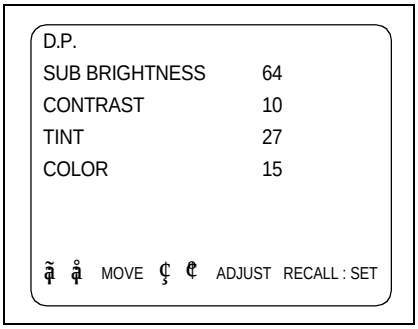


- Using volume up or volume down, adjust service adjustment data of RD/GD/BD and RB/GB/BB until a good gray scale with normal whites is obtained.ALIGNMENT INSTRUCTIONS
- Press the DISPLAY button to memorize the data.

6) DIGITAL PRESET(D.P) ADJUSTMENTS(S9)

SUBBRIGHTNESS ADJUSTMENT

- Receive a good local channel.
- Enter the service mode and select service adjustment S9.
- You can see the OSD as shoown in below.



- Select Subbrightness item, adjust Subbrightness data value to obtain normal brightness level.
- Press the DISPLAY button to memorize the data.

CONTRAST

- Fixed value = 27

TINT

- Fixed value = 32

COLOR

- Fixed value = 20

7) FACTORY OUTGOING MODE (S12 : FACT)

- If you select the S12, then the set becomes factory outgoing status.
- You can see the OSD "outgoing OK"

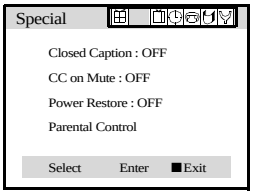
3. PARENTAL CONTROL PASSWORD SETTINGS

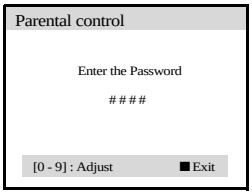
If user forget Parental Control Password as follows.

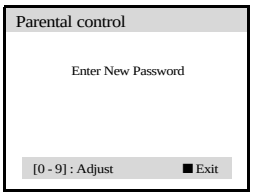
1) CHANGE THE PASSWORD.

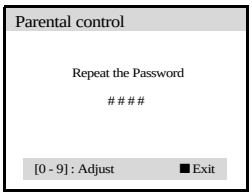
- Turn the set on.
- Direct the remote control to the reception window of your TV/VCR
- Using the MENU buttons, select the Special menu.
- Using the the channel up (ã) or down (å) duttons, select prental control.
- Using the volume up (¢), set the password Menu.
- Push buttons of remote control in sequence as follows.

  2 → 2 → 1 → 1
- Parental control password is reset.
- Using the 0~9 buttons, enter the password.
- Using the 0~9 buttons, repeat the password.





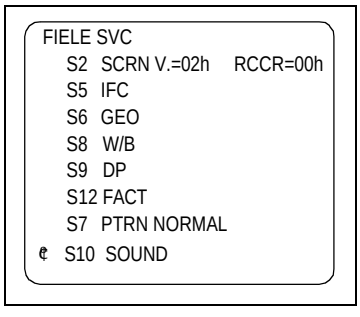




2) RESET THE PASSWORD

- Turn the set on.
- Direct the remote control to the reception window of your TV/VCR.
- Push buttons of remote control in sequence as follows.

  1 › MUTE › INFO › MUTE
- Then, the screen will appear as follows.



- Using the channel up (ã) or down (å) buttons, select S12 FACT.

  Press the volume up (¢) button, the set becomes factory outgoing status.
- Parental control password is reset.
- Using the MENU buttons, select the parental control menu, set the new password.

VOLTAGE CHART

LOC	PIN	MODE	
		ON	OFF
I101	1	2.37	0
	2	2.3	0
	3	2.63	0
	4	2.22	0.49
	5	2.88	0
	6	2.88	0
	70		0
	8	4.92	0.57
	9	2.25	0
	10	2.29	0.28
	11	4.9	4.89
	12	4.85	4.84
	13	3.94	0
	14	1.5	0
	15	1.53	0
	16	1.53	0
	17	0	0
	18	8.04	0
	19	2.52	0
	20	2.63	0
	21	2.59	0
	22	0.2	0
	23	0.22	0
	24	2.56	0
	25	5.14	4.23
	26	2.65	2.2
	27	0.69	0.16
	28	0.81	1.37
	29	1.71	1.4
	30	0	0
	31	NC	NC
	32	2.79	0.31
	33	0	0
	34	0	0
	35	0.36	0
	36	3.41	0
	37	0.55	0
	38	2.81	0.35
	39	3.27	0
	40	0	0
	41	0	0
	42	2.52	0
	43	4.95	0.5

LOC	PIN	MODE	
		ON	OFF
	44	2.73	0
	45	1.94	0
	46	2.36	0
	47	2.44	0
	48	4.25	0.51
	49	4.25	0.51
	50	3.56	0
	51	3.04	0.65
	52	1.98	0.32
	53	2.39	0
	54	3.11	0.3

LOC	PIN	MODE	
		ON	OFF
I301	1	0	0
	2	13.35	0
	3	26.34	3.63
	4	2.22	0
	5	2.22	0
	6	25.85	0
	7	2.33	0

LOC	PIN	MODE	
		ON	OFF
I401	1	7.62	0
	20		0
	3	5.05	0.6

LOC	PIN	MODE	
		ON	OFF
I601 (MONO ONLY)	1	14.55	10.92
	2	7.56	5.52
	3	7.81	5.87
	4	0.87	0.82
	50		0
	60		0
	70		0
	80		0
	90		0
	10	0	0
	11	0	0
	12	0	0
	13	0	0
	14	0	0
	15	0	0
	16	0	0

VOLTAGE CHART

LOC	PIN	MODE	
		ON	OFF
I701	1	4.9	4.89
	2	4.81	4.8
	3	5.04	4.99
	4	5.04	4.99
	50		0
	6	1.9	1.9
	7	2.68	2.66
	8	4.97	4.92
	9	5.04	4.99
	10	0	0
	11	2.22	0.49
	12	0	4.89
	13	4.95	4.89
	14	3.4	3.37
	15	2.69	2.47
	16	0	3.52
	17	4.65	4.99
	18	4.14	4.99
	19	0	0
	20	0	0
	21	0	0
	22	0	0
	23	NC	NC
	24	NC	NC
	25	0	0

LOC	PIN	MODE	
		ON	OFF
I701	26	0	0
	27	3.81	3.46
	28	4.97	4.92
	29	4.77	4.71
	30	5.04	4.99
	31	4.08	0
	32	5.04	4.99
	33	0	0
	34	5.04	4.99
	35	0	0
	36	0	0

LOC	PIN	MODE	
		ON	OF
I703	1	0	0
	20		0
	30		0
	40		0
	5	4.89	4.86
	6	4.86	4.83
	70		0
	8	5.04	4.99

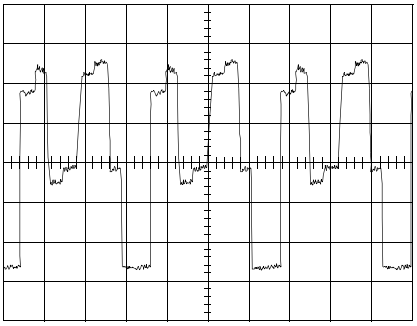
LOC	PIN	MODE	
		ON	OF
I801	1	6.72	4.12
	2	163.8	173.53
	3	14.4	11.02
	4	4.53	3.21
	5	2.35	3.91
	6	7.55	3.45
	7	5.04	4.55

LOC	PIN	MODE	
		ON	OFF
Q201	C	5.02	0
	E	3.32	3.28
	B	2.49	2.48
Q401	C	38.6	42.28
	E	0	0
	B0		0
Q402	C	132	0
	E	0	0
	B0		0
Q403	C	0.59	0
	E	0	0
	B	0	0.66
Q404	C	10.1	0
	E	0	0
	B0		0
Q602	C	9.71	0
	E	1.69	0
	B	2.31	0
Q701	C	5.02	4.99
	E	0	0
	B0		0
Q702	C	5.02	5
	E	0	0
	B0		0

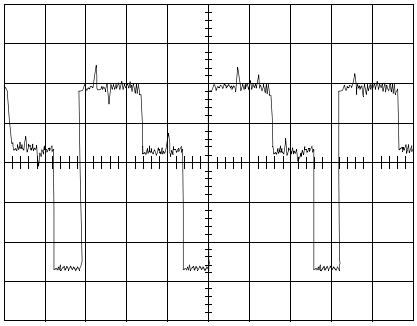
LOC	PIN	MODE	
		ON	OFF
Q703	C	5.02	5
	E	0	0
	B0		0
Q704	C	4.93	4.9
	E	4.95	4.92
	B	4.32	4.29
Q707	C	5.02	4.2
	E	0.21	5
	B	0.07	4.9
Q760	C	2.89	0
	E	0	0
	B	0	0.68
Q804	C	0.4	0
	E	133.1	119.38
	B	132.6	118.96
Q805	C	12.31	5
	E	5.02	10.88
	B	5.6	5.59
Q851	C	4.01	0
	E	0	0
	B	0	0.68

WAVEFORMS

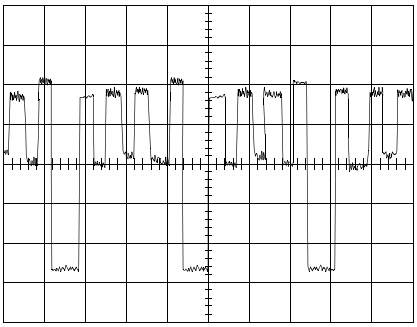
(1) I101 PIN 19



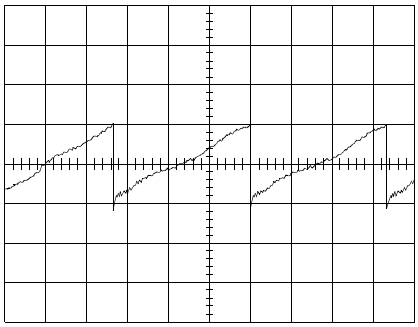
(2) I101 PIN 20



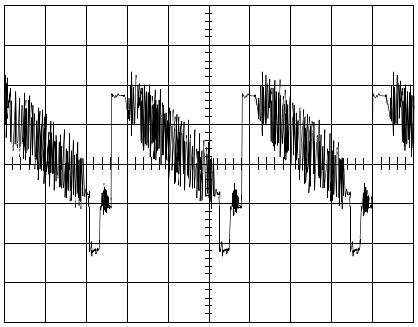
(3) I101 PIN 21



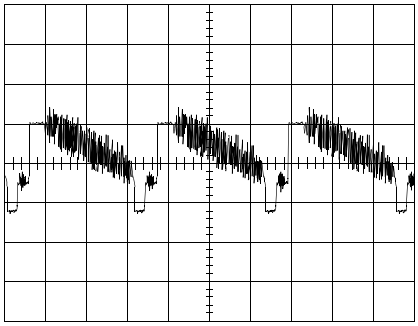
(4) I101 PIN 23



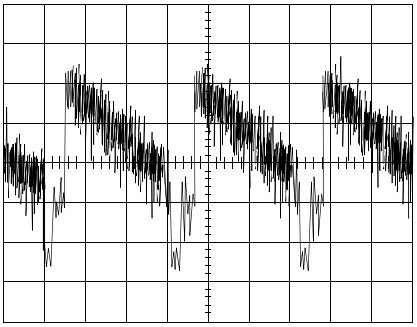
(5) I101 PIN 40



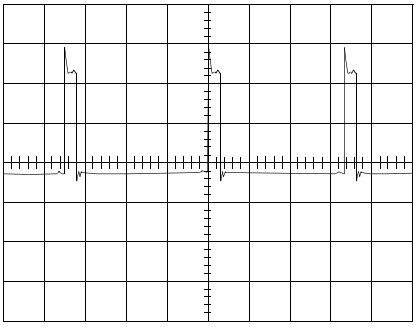
(5) I101 PIN 44



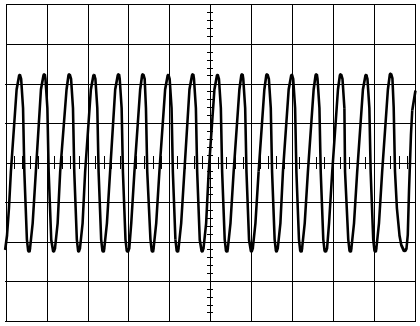
(7) I101 PIN 46



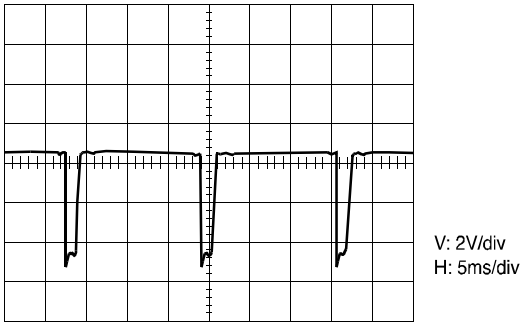
(8) I301 PIN7



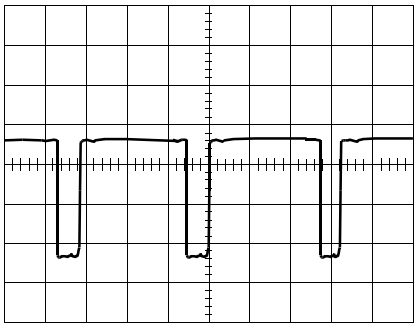
(9) I701 PIN 7



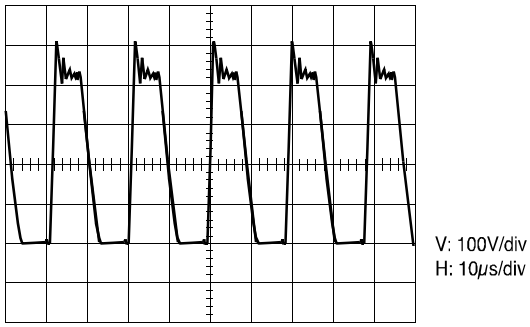
(10) I701 PIN 17



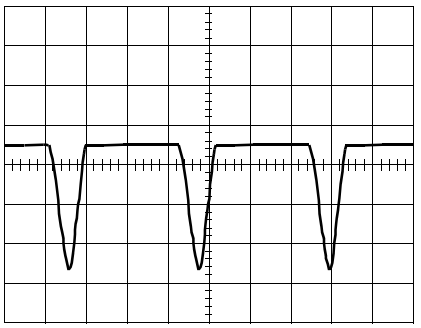
1) I701 PIN 18



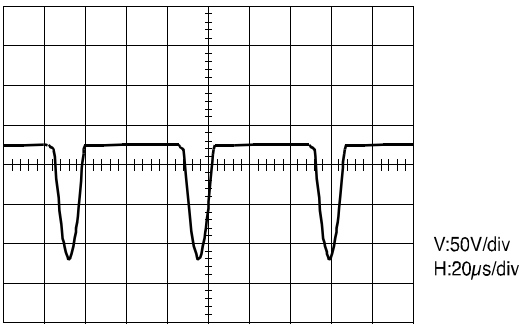
(12) I801 PIN 2



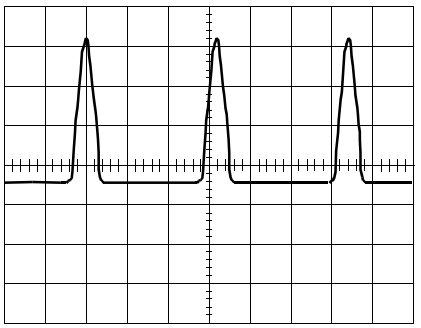
(13) T402 PIN 25.5V



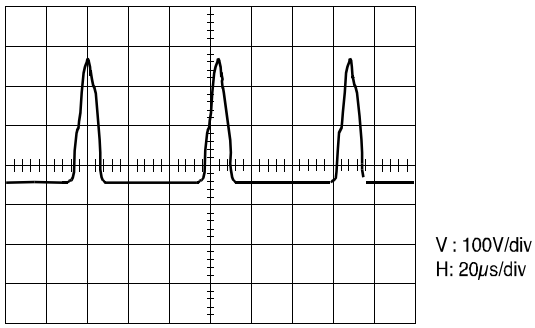
(14) T402 PIN 10.5V



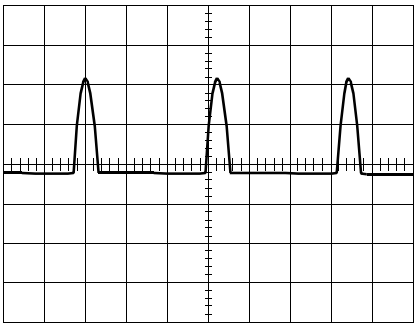
(15) T402 PIN HEATER



(16) T402 PIN 200V

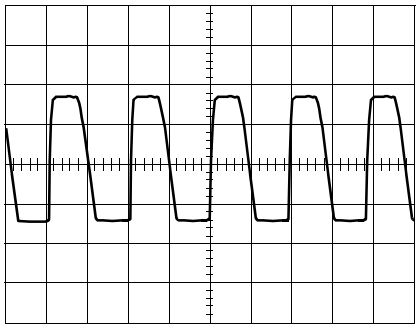


(17) T401 PIN H.V



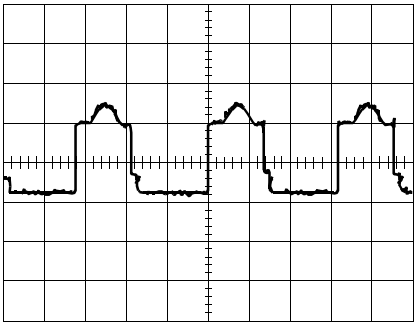
V: 500V/div
H: 20μs/div

(18) T801 PIN 133V



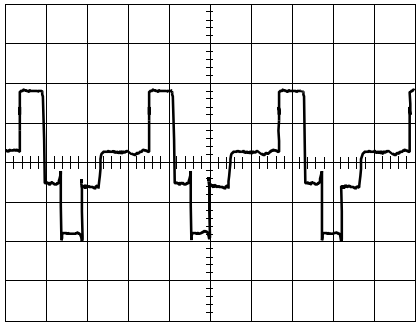
V: 100V/div
H: 10μs/div

(19) Q403 COLLECTOR



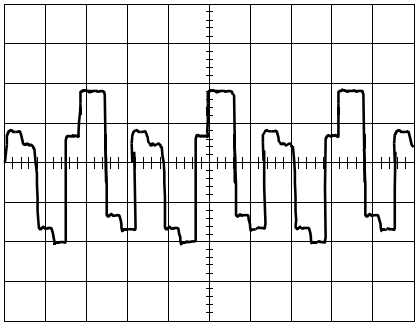
V: 500V/div
H: 20μs/div

(20) CRT SOCKET PIN B



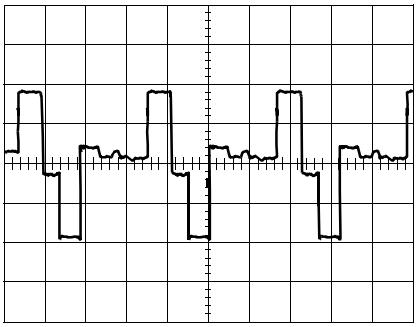
V:50V/div
H:20μs/div

(21) CRT SOCKET PIN R



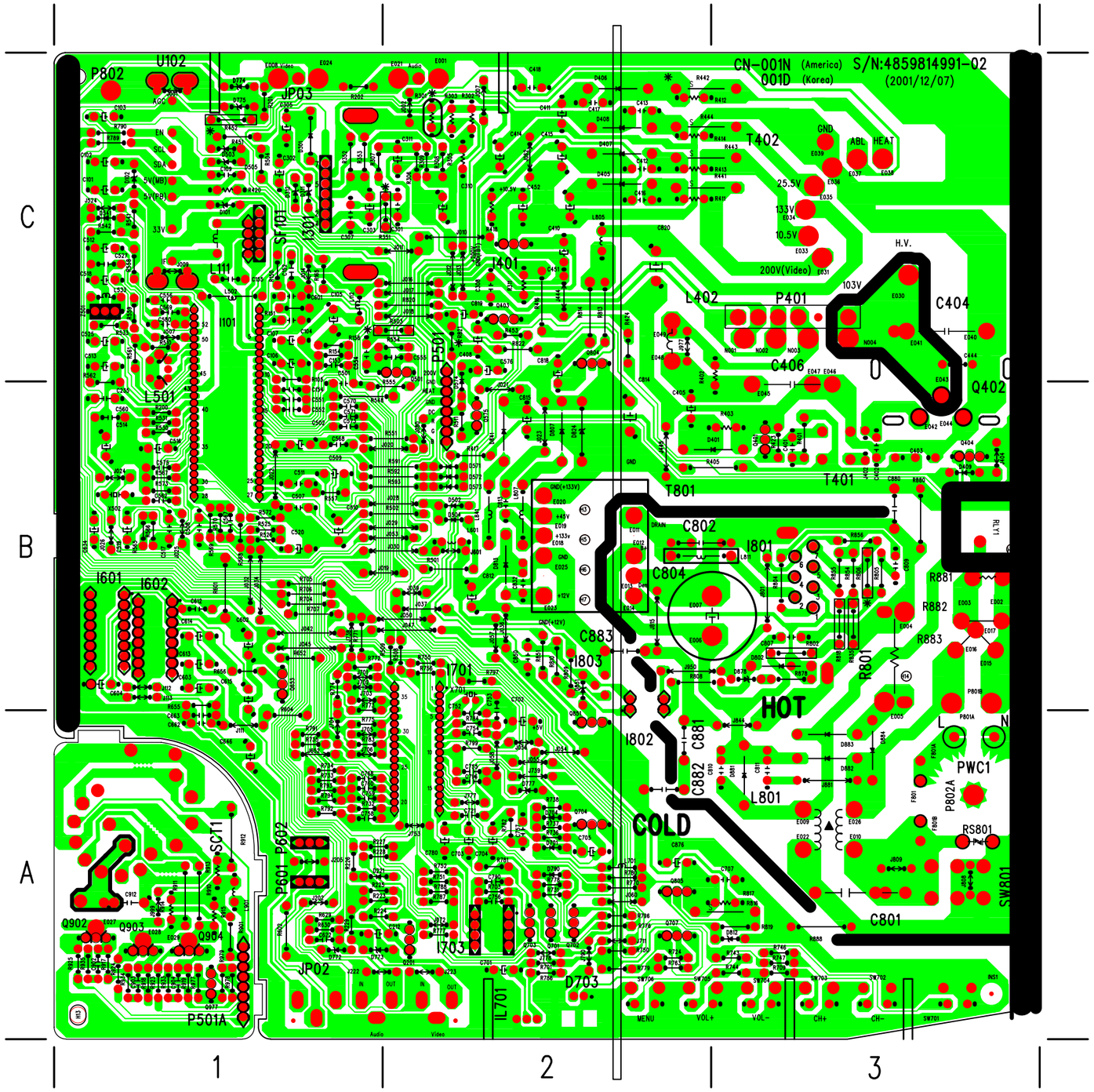
V:50V/div
H:20μs/div

(22) CRT SOCKET PIN G



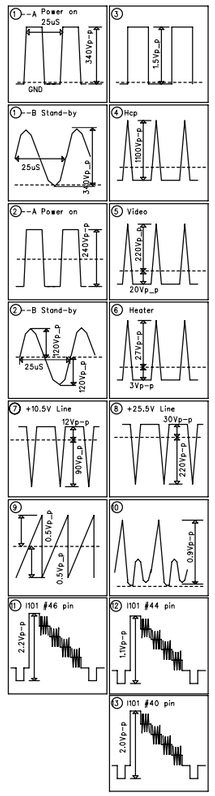
V:50V/div
H:20μs/div

PRINTED CIRCUIT BOARD



LOC	POS	LOC	POS	LOC	POS	LOC	POS	LOC	POS	LOC	POS	LOC	POS	LOC	POS
C101	1 C	C552	1 B	C818	2 C	I401	2 C	R301	2 C	R567	1 B	R787	2 A	SF101	1 C
C102	1 C	C554	1 C	C819	2 C	I601	1 B	R302	2 C	R568	1 B	R788	2 A	SF102	1 C
C103	1 C	C555	2 C	C820	2 C	I602	1 B	R303	2 C	R569	1 B	R789	1 C	SW701	3 A
C104	1 C	C556	1 C	C832	2 B	I701	2 B	R305	2 C	R570	1 B	R790	1 C	SW702	3 A
C105	1 C	C560	1 B	C850	2 B	I703	2 A	R306	2 C	R572	1 B	R791	1 A	SW703	3 A
C106	1 C	C562	1 B	C876	2 A	I801	3 B	R307	1 C	R573	1 B	R792	1 A	SW704	3 A
C107	1 C	C567	1 B	C880	3 B	I802	2 B	R308	2 C	R591	2 B	R793	1 A	SW705	2 A
C109	1 C	C568	1 B	C881	2 A	I803	2 B	R309	2 C	R592	2 B	R794	1 A	SW706	2 A
C152	1 C	C569	1 C	C882	2 A	IL701	2 A	R311	2 C	R593	2 B	R796	2 A	SW801	3 A
C153	1 C	C570	1 B	C883	2 B	L111	1 C	R351	2 C	R601	1 B	R797	2 B	T401	3 B
C154	1 B	C571	1 B	C902	1 A	L112	1 C	R352	1 C	R602	1 A	R799	2 A	T402	3 C
C155	1 C	C573	1 B	C903	1 A	L402	2 C	R353	1 C	R604	1 A	R801	3 B	T801	2 B
C212	1 A	C575	1 B	C904	1 A	L501	1 C	R401	3 B	R629	1 A	R802	3 B	U102	1 C
C235	1 B	C576	2 C	C912	1 A	L502	1 C	R402	3 C	R630	1 A	R804	3 B	X502	1 B
C301	2 C	C580	1 C	D101	1 C	L533	1 C	R403	3 B	R652	1 B	R805	3 B	X701	2 B
C302	1 C	C601	1 C	D102	1 C	L601	2 B	R405	3 B	R655	1 B	R806	3 B	Z501	1 C
C303	1 C	C602	1 B	D221	1 A	L701	2 A	R411	2 C	R656	1 B	R808	2 B		
C305	1 C	C603	1 B	D301	1 C	L801	3 A	R412	2 C	R701	2 A	R809	2 B		
C307	1 C	C604	1 B	D311	1 C	L805	2 C	R413	2 C	R703	2 A	R810	2 B		
C308	2 C	C612	1 B	D312	1 C	L807	2 B	R414	2 C	R704	1 B	R813	2 C		
C310	2 C	C613	1 B	D401	3 B	L811	2 B	R416	2 C	R705	1 B	R814	2 C		
C311	2 C	C614	1 B	D405	2 C	L841	2 B	R417	2 B	R706	1 B	R816	3 A		
C401	3 B	C615	1 B	D406	2 C	L901	1 A	R418	2 C	R707	1 B	R817	3 A		
C402	3 B	C622	1 A	D407	2 C	Q201	2 A	R420	1 C	R709	3 A	R818	3 B		
C403	3 B	C634	1 B	D408	2 C	Q401	3 B	R423	3 B	R724	2 A	R819	3 A		
C404	3 C	C646	1 A	D409	3 B	Q402	3 B	R424	2 C	R731	2 A	R820	2 C		
C405	2 B	C662	1 A	D502	2 B	Q403	2 C	R441	2 C	R732	1 A	R821	2 C		
C406	3 B	C663	1 A	D503	1 C	Q404	3 B	R442	2 C	R733	1 A	R822	2 C		
C408	2 C	C701	2 A	D504	2 B	Q501	2 C	R443	2 C	R734	1 A	R835	3 B		
C410	2 C	C702	2 A	D505	1 C	Q575	2 B	R444	2 C	R735	1 A	R851	2 B		
C411	2 C	C703	2 A	D541	1 C	Q653	1 B	R451	1 C	R736	2 A	R854	3 B		
C412	2 C	C704	2 A	D571	2 B	Q701	2 A	R452	1 C	R737	2 A	R855	3 B		
C413	2 C	C705	2 A	D572	2 B	Q702	2 A	R453	2 C	R738	2 A	R856	3 B		
C414	2 C	C707	3 A	D573	2 B	Q703	2 A	R501	2 B	R743	3 A	R878	3 B		
C415	2 C	C721	2 A	D574	2 B	Q704	2 A	R502	2 B	R744	3 A	R880	3 B		
C416	2 C	C752	2 A	D701	2 A	Q707	2 A	R503	2 C	R746	3 A	R882	3 B		
C417	2 C	C753	2 A	D703	2 A	Q804	2 C	R504	1 C	R747	3 A	R883	3 B		
C418	2 C	C754	2 A	D704	2 A	Q805	2 A	R508	2 B	R750	2 A	R888	3 A		
C444	3 C	C755	2 A	D772	1 A	Q851	2 A	R509	2 B	R751	2 A	R901	1 A		
C451	2 C	C756	2 A	D773	1 A	Q902	1 A	R510	1 C	R752	2 A	R910	1 A		
C452	2 C	C757	2 A	D774	1 C	Q903	1 A	R511	2 B	R755	2 B	R911	1 A		
C501	1 B	C758	1 A	D775	1 C	Q904	1 A	R525	1 B	R756	2 B	R912	1 A		
C502	1 B	C759	1 A	D777	2 A	Q977	1 A	R526	1 B	R763	2 A	R913	1 A		
C507	1 B	C760	1 A	D790	2 A	R105	1 C	R530	1 B	R770	2 A	R914	1 A		
C508	1 B	C768	1 A	D802	3 B	R150	1 C	R531	1 B	R771	1 B	R915	1 A		
C509	1 B	C780	2 A	D807	2 B	R151	1 C	R533	1 C	R772	1 B	R917	1 A		
C510	1 B	C790	2 A	D812	3 A	R154	1 C	R541	1 C	R773	1 A	R918	1 A		
C511	1 B	C796	2 A	D813	2 B	R156	1 C	R542	1 C	R774	1 B	R919	1 A		
C512	1 C	C801	3 A	D824	2 B	R165	1 C	R548	1 B	R775	1 A	R923	1 A		
C513	1 C	C802	2 B	D841	2 B	R200	1 B	R551	2 B	R776	2 A	R924	1 A		
C514	1 B	C804	3 B	D851	2 B	R201	1 C	R554	2 C	R777	2 A	R925	1 A		
C516	1 B	C807	3 B	D878	3 B	R202	1 C	R555	2 B	R778	2 A	R933	1 A		
C517	1 B	C809	3 B	D881	3 A	R223	1 A	R557	1 B	R779	2 A	R934	1 A		
C518	1 C	C810	3 A	D882	3 A	R224	1 A	R558	1 C	R780	2 A	R935	1 A		
C519	1 B	C811	3 A	D883	3 A	R225	1 A	R559	1 C	R781	2 A	R977	1 A		
C520	1 B	C812	2 B	D884	3 A	R226	1 A	R561	1 C	R782	2 A	R978	1 A		
C525	1 C	C813	2 B	F801	3 A	R227	1 A	R562	1 B	R783	1 A	R979	1 A		
C527	1 C	C814	2 B	I101	1 C	R228	1 A	R565	1 B	R784	2 A	RLY1	3 B		
C551	1 B	C815	2 B	I301	1 C	R229	1 A	R566	1 B	R786	2 A	RS801	3 A		

SCHEMATIC DIAGRAM



1. CAUTION

⚠ SYMBOL MARKED PARTS IN THE SCHEMATIC DIAGRAM DESIGNATE THE COMPONENTS WHICH HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY AND SHOULD BE REPLACED ONLY WITH TYPES INDENTICAL TO THOSE IN ORIGINAL CIRCUIT OR SPECIFIED IN THE PARTS LIST. DO NOT DEGRADE THE SAFETY OF THE RECEIVER THROUGH IMPROPER SERVICING.

WARING :

BEFORE SERVICING THIS CHASSIS,READ THE "X-RAY RADIATION PRECAUTION " "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" IN THE SERVICE MANUAL.

CAUTION TO THE SERVICE TECHNICIANS :

BEFORE RETURNING THE RECEIVER TO THE CUSTOMER APPROPRIATE LEAKAGE CURRENT OR RESISTANCE MEASUREMENT SHOULD BE CONDUCTED TO DETERMINE THAT EXPOSED PARTS ARE PROPERLY INSULATED FROM THE SUPPLY CIRCUIT.

NOTE :

1. RESISTANCE IS SHOWN IN OHMS. K=1,000 M=1,000,000
2. UNLESS OTHERWISE NOTED IN SCHEMATIC ALL CAPACITOR VALUES LESS THAN 1 ARE EXPRESSED IN uF AND THE VALUES MORE THAN 1 IN pF.
3. VOLTAGES READ WITH "V,T,V,M" FROM POINT INDICATE TO CHASSIS GROUND USING A COLOR BAR SIGNAL WITH ALL CONTROLS AT NORMAL LINE VOLTAGE 100 VOLTS AC. VOLTAGE READINGS SHOWN ARE NORMAL VALUES AND MAY VARY +20% EXCEPT H.V.
4. IN CASE OF 19" RECEIVER THE COMPONENT WITH THE MARK * SHOULD BE USED ONLY.
5. THE CIRCUIT DIAGRAM IS A STANDARD ONE. CIRCUITS PRINTED MAY BE SUBJECT TO CHANGE FOR PRODUCT IMPROVEMENT WITHOUT PRIOR NOTICE.

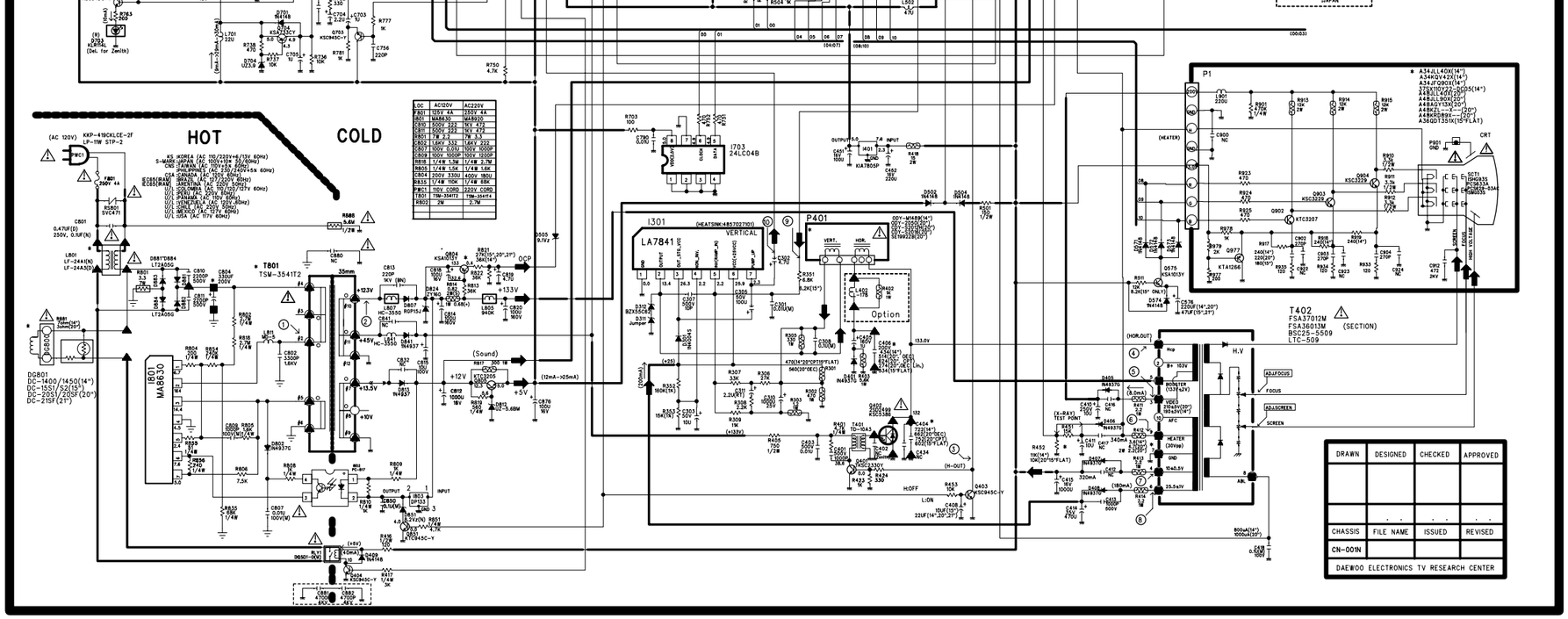
CN-001N SCHEMATIC DIAGRAM
CN-001D (Korea)

2002. 3. 11.

I:	KOREA	(NTSC)
II:	JAPAN	(NTSC)
III:	TAIWAN	(NTSC)
IV:	PHILIPPINES	(NTSC)
V:	USA / CANADA / MEXICO	(NTSC)
VI:	BRAZIL / ARENTINA	(PAL M/N)
VII:	CHILE / PERU / PANAMA	(NTSC)
	VENEZUELA / COLOMBIA	

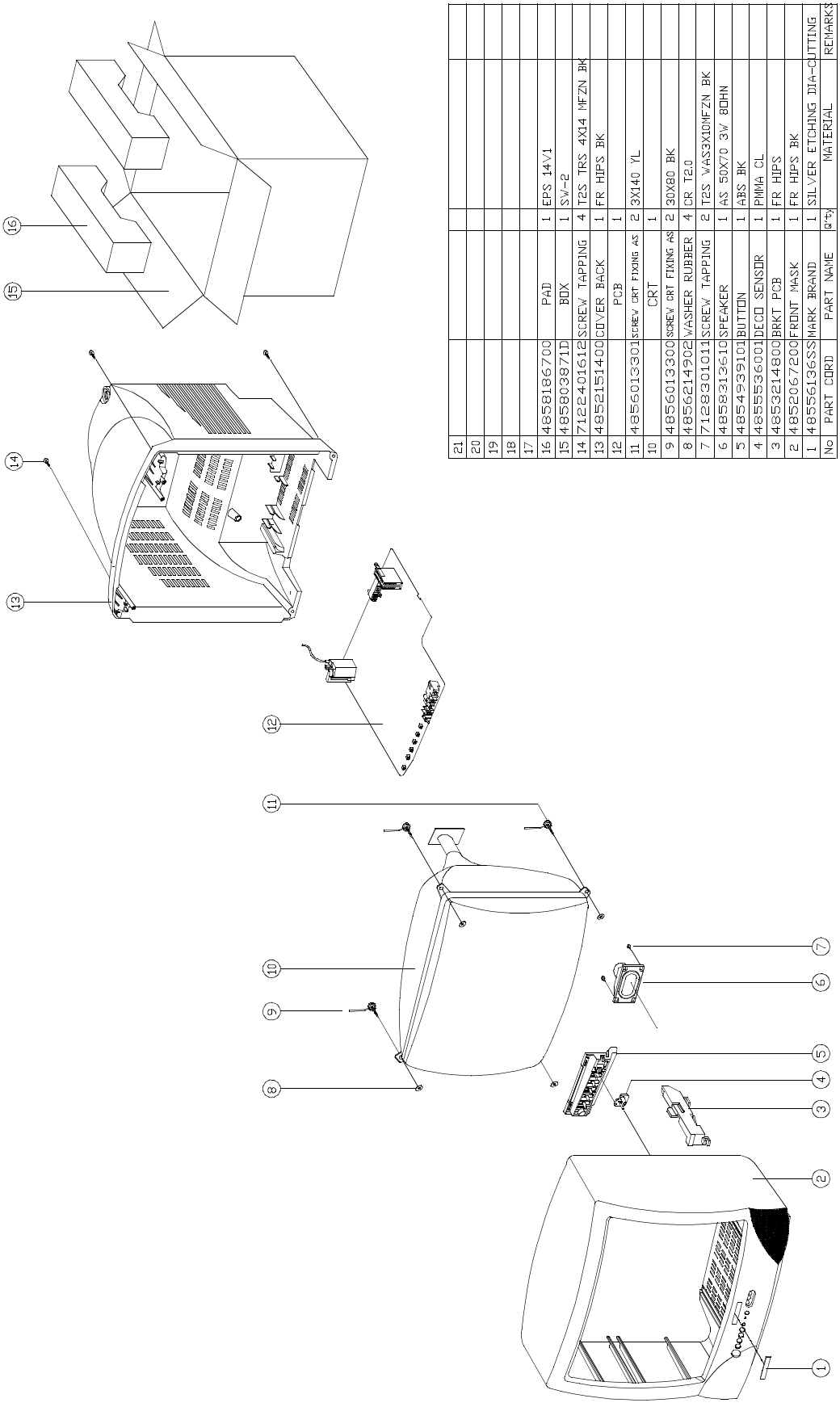
→ NORTH AMERICA
→ SOUTH AMERICA
→ MIDDLE AMERICA

LOC	14"OEC	15"F	20"OEC	20"OPT	21"PHILIPS
C404	722	602	682	752	722
C406	434	334	514	624	334
I803	DP133	SE101N	DP133	DP133	DP333
J977	JUMPER	X	JUMPER	JUMPER	X
L402	X	L-102	X	X	TRL-361A
R402	1W 470	1W 470	1W 470	1W 470	1W, 3K
R501	1W 560	1W 470	1W 560	1W 560	2W, 820
R531	1W 5.6K	2W 5.6K	2W 5.6K	2W 5K	5W, 1K
R610	1W 3.6	1W 4.7	1W 4.7	2W 4.7	5W, 100
R614	1W 0.82	1W 0.82	1W 0.82	2W 2.2 W/Oxide	1W, 4.7
R652	10K	10K	10K	1W 0.68	1W,0.82
RC503	7.5K	6.2K	5.6K	10K	10K
RC536	1K	1K	820	5.6K	6.8K
RC863	36K	27K	27K	820	820
RC732/3/4	1.3K	1.3K	1K	27K	27K
RC907/8/9	180	180	150	1K	1K
C428	PC5433A	PC5433A	PC5433-03C	150	150
C575	220UF	220UF	10uF	PC5612-03C	PC5612-03C
RC531	10K	47UF	220UF	22uF	22uF
R302	470	8.2K	10K	220UF	220UF
R311	X	X	470	10K	10K
		680	X	470	470
				X	X



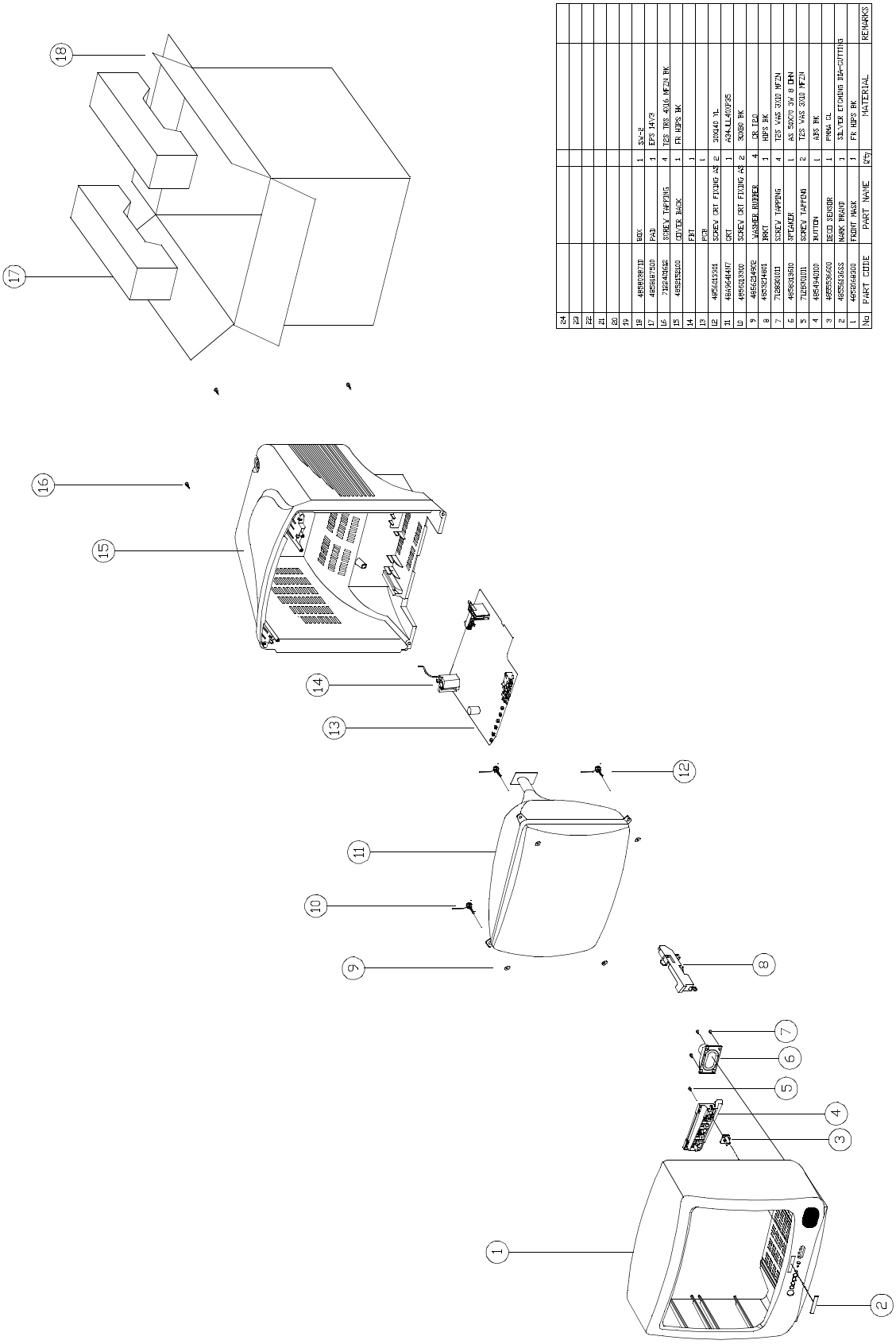
EXPLODED VIEW

1. DTQ-14V1FSN



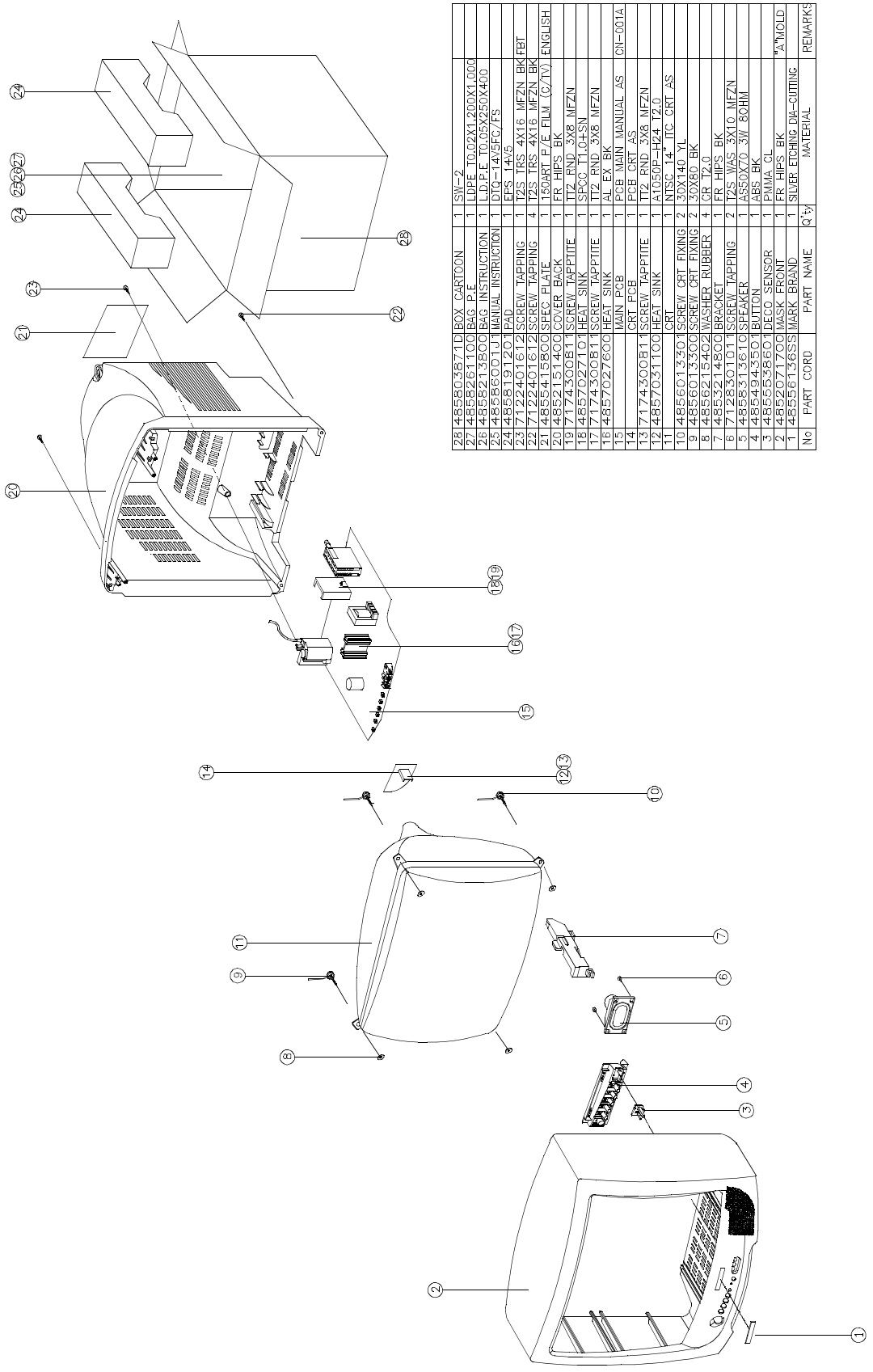
No	PART CORD	PART NAME	Q'ty	MATERIAL	REMARKS
21					
20					
19					
18					
17					
16	48581867000	PAD	1	EPS 14V1	
15	48580387100	BOX	1	SW-2	
14	71224016120	SCREW TAPPING	4	T2S TRS 4X14 MFZN BK	
13	48521514000	COVER BACK	1	FR HIPS BK	
12		PCB	1		
11	48560133010	SCREW CRT FIXING AS	2	3X140 YL	
10		CRT	1		
9	48560133000	SCREW CRT FIXING AS	2	30X80 BK	
8	48562149020	WASHER RUBBER	4	CR T2.0	
7	71283010110	SCREW TAPPING	2	T2S WAS3X10MFZN BK	
6	48583136100	SPEAKER	1	AS 50X70 3W 8OHN	
5	48549391010	BUTTON	1	ABS BK	
4	48555360010	DECO SENSOR	1	PMMA CL	
3	48532148000	BRKT PCB	1	FR HIPS	
2	48520672000	FRONT MASK	1	FR HIPS BK	
1	48556136550	MARK BRAND	1	SILVER ETCHING DIA-CUTTING	

2. DTQ-14V3FSN



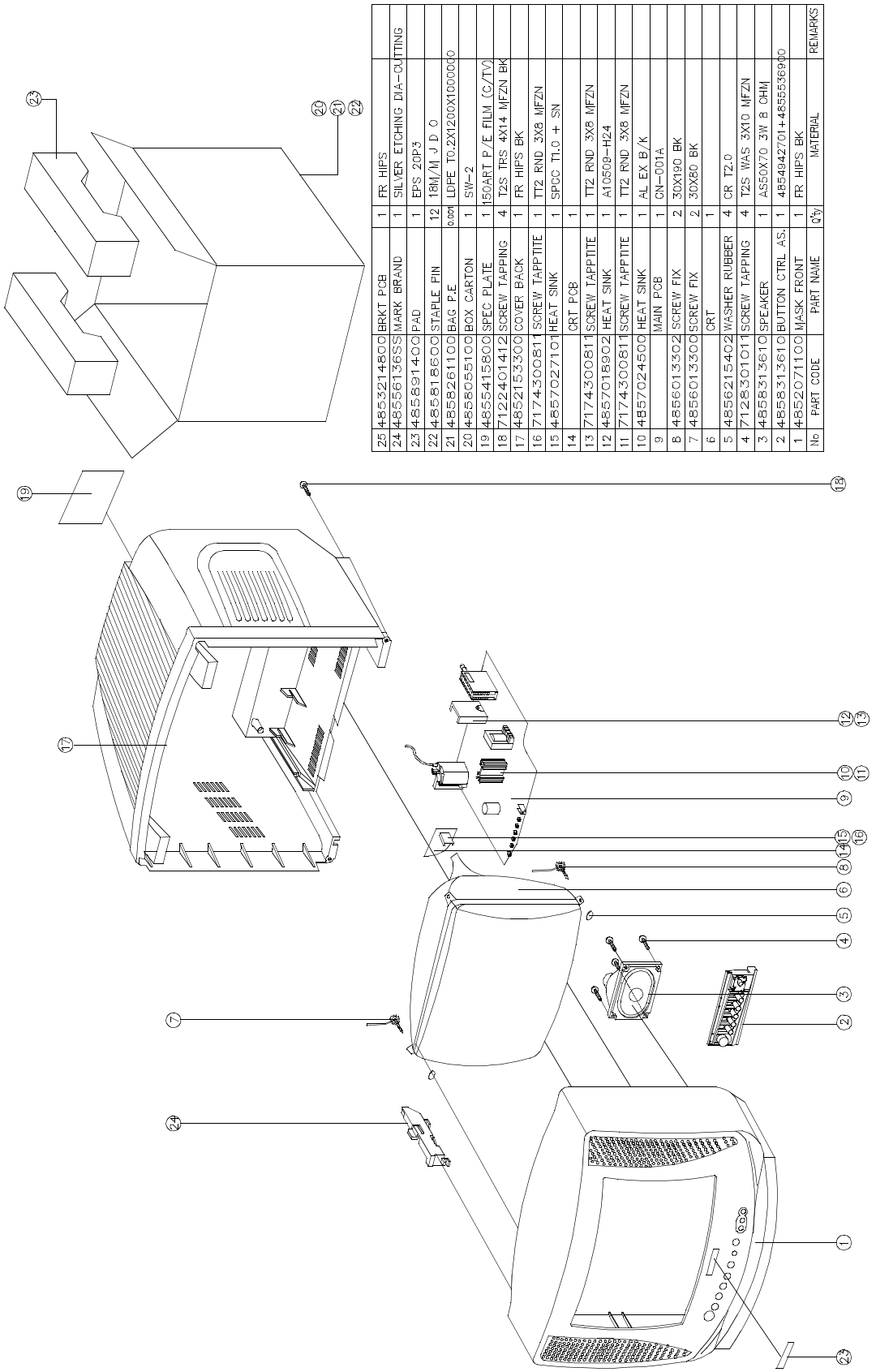
No.	PART CODE	PART NAME	Q'ty	MATERIAL	REMARKS
24					
23					
22					
21					
20					
19					
18	4895039721B	BOX	1	SW-2	
17	4854181300	PAD	1	EPS 14*3	
16	7824436G2	SCREW TAPPING	4	TES TRS 4X16 NF2N BK	
15	4853475100	COVER BACK	1	FR HIPS BK	
14		PBT	1		
13		PCB	1		
12	4854033301	SCREW CRT FIXING	2	3X24L0 TL	
11	4849564A417	CRT	1	A34-LL40XF25	
10	4855013700	SCREW CRT FIXING	2	3X25B BK	
9	4855024952	WASHER RUBBER	4	OR ITAO	
8	4853214601	BRKT	1	HIPS BK	
7	7128601101	SCREW TAPPING	4	TES VAS 3X10 NF2N	
6	4858031500	SPEAKER	1	AS 58X70 3W 8 OHM	
5	7128701101	SCREW TAPPING	2	TES VAS 3X10 NF2N	
4	4854944100	BUTTON	1	ABS BK	
3	4855536500	IR/LD SENSOR	1	PMMA CL	
2	4853461653	MARK BRAND	1	SILICON ETCHING 18A-CAT1143	
1	4852854A100	FRONT MASK	1	FR HIPS BK	

3. DTQ-14V5FCN / FSN



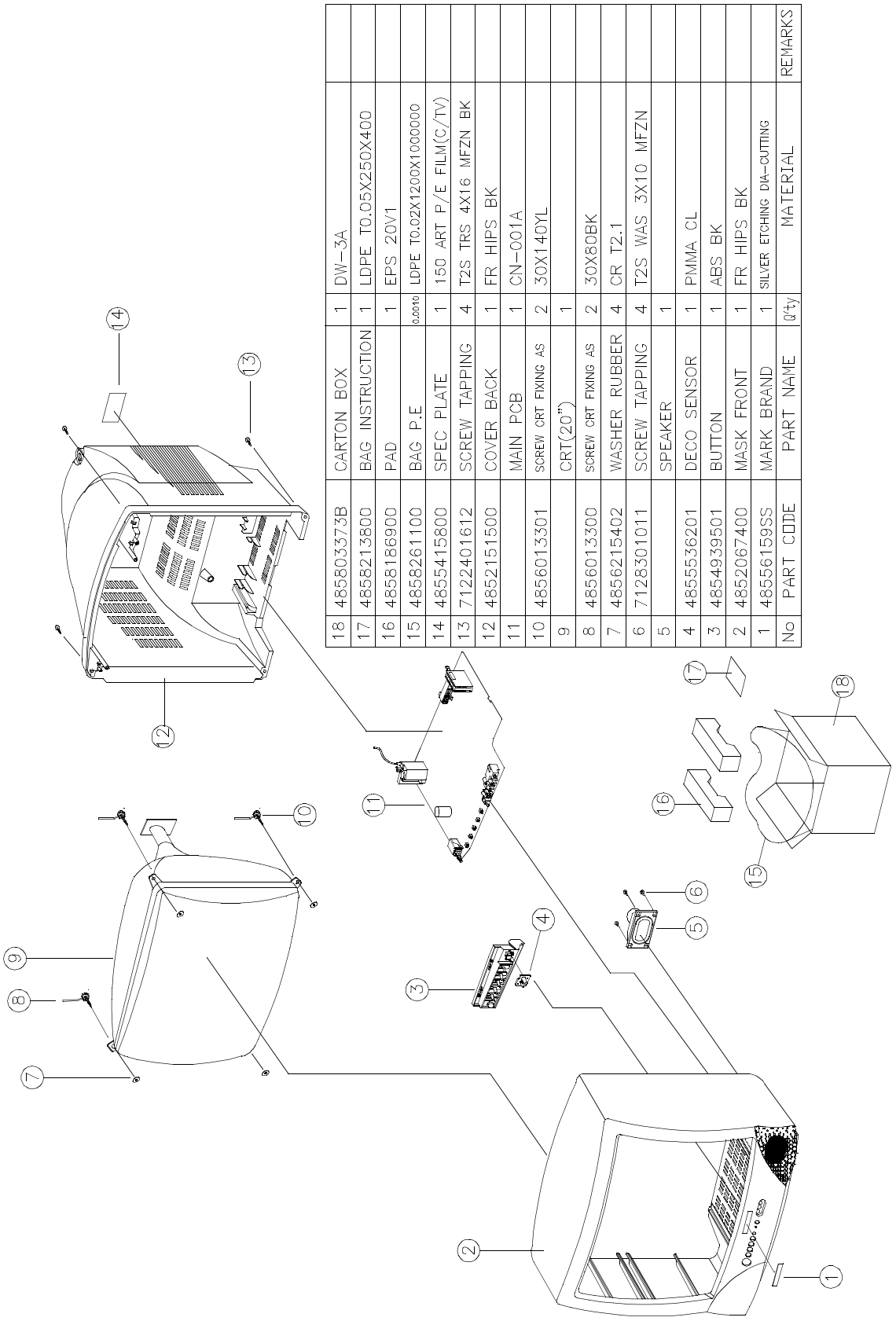
No	PART NAME	Q'ty	MATERIAL	REMARKS
28	48580357 1D	1	BOX CARTOON	SW-2	
27	48582611 00	1	BAG P.E	LDPE T0.02X1,200X1,000	
26	48582138 00	1	BAG INSTRUCTION	L.D.P.E. T0.05X250X400	
25	48586600 1J1	1	MANUAL INSTRUCTION	DTQ-14V5FC/FS	
24	48581912 01	1	PAD	EPS 14/5	
23	71224016 12	1	SCREW TAPPING	T2S TRS 4X16 MFZN BK-FBT	
22	71224016 12	4	SCREW TAPPING	T2S TRS 4X16 MFZN BK	
21	48554158 00	1	SPEC PLATE	150ART P/E FILM (C/TV)	ENGLISH
20	48521514 00	1	COVER BACK	FR HIPS BK	
19	71743008 11	1	SCREW TAPPTITE	TT2 RND 3X8 MFZN	
18	48570227 01	1	HEAT SINK	SPCC T1.0+SN	
17	71743008 11	1	SCREW TAPPTITE	TT2 RND 3X8 MFZN	
16	48570276 00	1	HEAT SINK	AL EX BK	
15		1	MAIN PCB	PCB MAIN MANUAL AS	CN1-001A
14		1	CRT PCB	PCB CRT AS	
13	71743008 11	1	SCREW TAPPTITE	TT2 RND 3X8 MFZN	
12	48570311 00	1	HEAT SINK	A1050P-H24 T2.0	
11		1	CRT	NTSC 14" ITC CRT AS	
10	48560133 01	2	SCREW CRT FIXING	3.0X140 YL	
9	48560133 00	2	SCREW CRT FIXING	3.0X80 BK	
8	48562154 02	4	WASHER RUBBER	CR T2.0	
7	48532148 00	1	BRACKET	FR HIPS BK	
6	71283010 11	2	SCREW TAPPING	T2S WAS 3X10 MFZN	
5	48583136 10	1	SPEAKER	A650X70 3W 8OHM	
4	48549435 01	1	BUTTON	ABS BK	
3	48555386 01	1	DECO SENSOR	PMMA CL	
2	48527717 00	1	MASK FRONT	FR HIPS BK	"A"MOLD
1	48556136 SS	1	MARK BRAND	SILVER ETCHING DIA-CUTTING	

4. DTQ-14U1FSN



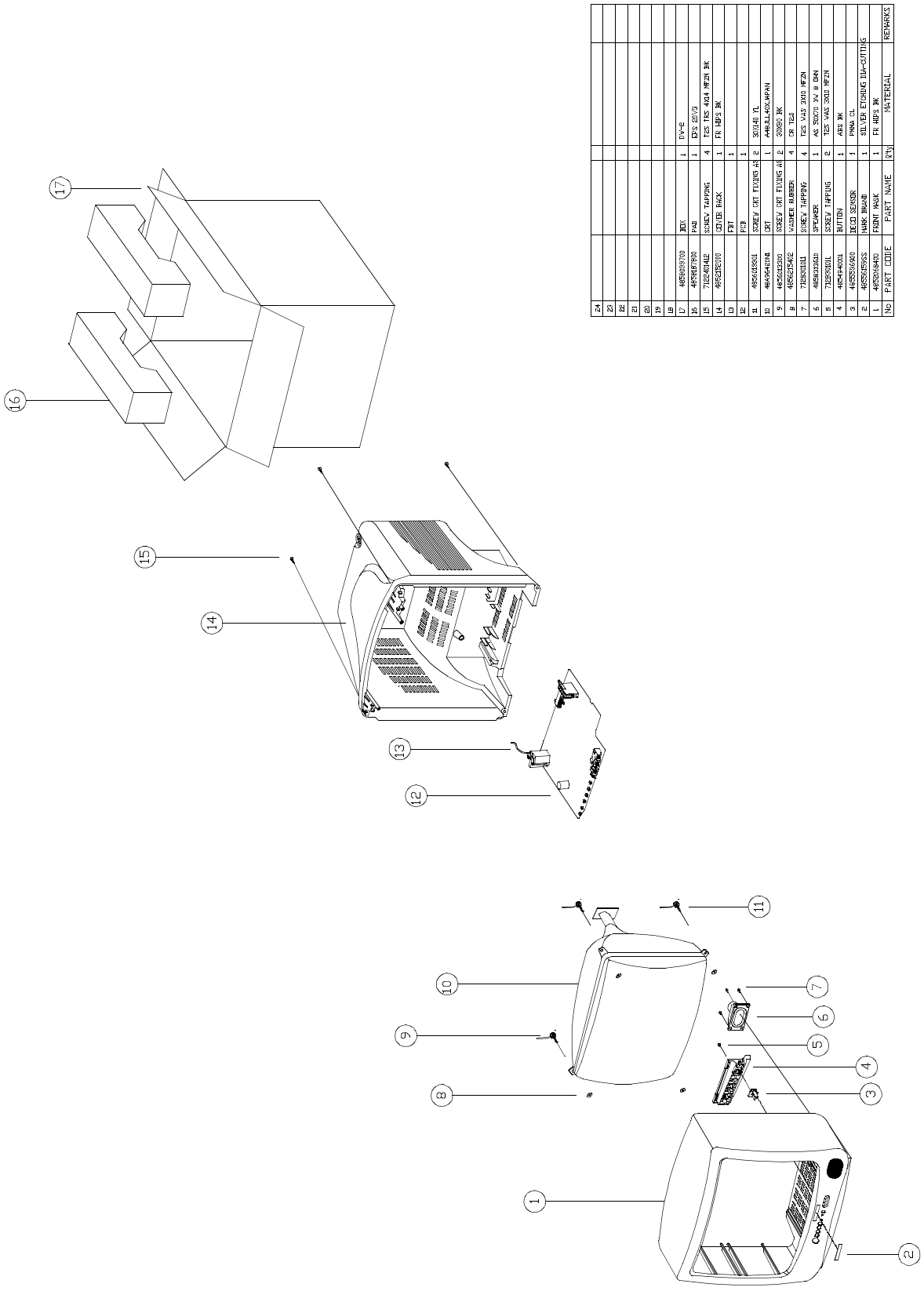
No	PART CODE	PART NAME	Q'ty	MATERIAL	REMARKS
1	4852071100	MASK FRONT	1	FR HIPS BK	
2	4858313610	BUTTON CTRL ASS'Y	1	485494270I+485553690C	
3	4858313610	SPEAKER	1	AS50X70 3W 8 OHM	
4	7128301011	SCREW TAPPING	4	T2S WAS 3X10 MFZN	
5	4856215402	WASHER RUBBER	4	CR T2.0	
6		CRT	1		
7	4856013300	SCREW FIX	2	30X80 BK	
8	4856013302	SCREW FIX	2	30X190 BK	
9		MAIN PCB	1	CN-001A	
10	4857024500	HEAT SINK	1	AL EX B/K	
11	7174300811	SCREW TAPPTITE	1	TT2 RND 3X8 MFZN	
12	4857018902	HEAT SINK	1	A10509-H24	
13	7174300811	SCREW TAPPTITE	1	TT2 RND 3X8 MFZN	
14		CRT PCB	1		
15	4857027101	HEAT SINK	1	SPGC T1.0 + SN	
16	7174300811	SCREW TAPPTITE	1	TT2 RND 3X8 MFZN	
17	4852153300	COVER BACK	1	FR HIPS BK	
18	7122401412	SCREW TAPPING	4	T2S TRS 4X14 MFZN BK	
19	4855415800	SPEC PLATE	1	150ART P/E FILM (C/TV)	
20	4858055100	BOX CARTON	1	SW-2	
21	4858261100	BAG P.E	0.001	LDPE T0.2X1200X1000CCC	
22	4858186000	STAPLE PIN	12	18M/M J D O	
23	4858914400	PAD	1	EPS 20P3	
24	4856136550	MARK BRAND	1	SILVER ETCHING DIA-CUTTING	
25	4853214800	BRKT PCB	1	FR HIPS	

5. DTQ-20V1FSN



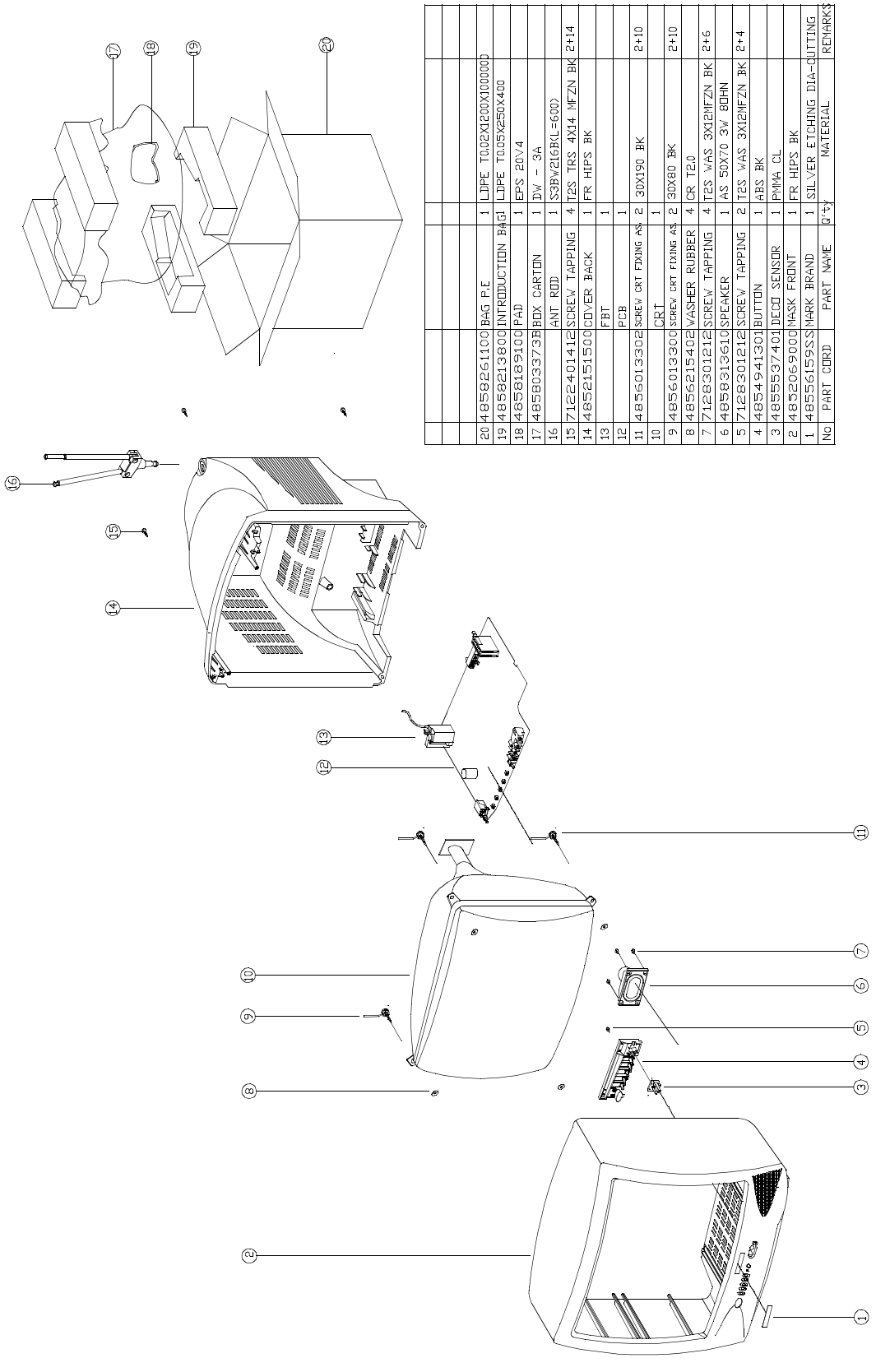
No	PART CODE	PART NAME	Q'ty	MATERIAL	REMARKS
18	485803373B	CARTON BOX	1	DW-3A	
17	4858213800	BAG INSTRUCTION	1	LDPE T0.05X250X400	
16	4858186900	PAD	1	EPS 20V1	
15	4858261100	BAG P.E	0.0010	LDPE T0.02X1200X1000000	
14	4855415800	SPEC PLATE	1	150 ART P/E FILM(C/TV)	
13	7122401612	SCREW TAPPING	4	T2S TRS 4X16 MFZN BK	
12	4852151500	COVER BACK	1	FR HIPS BK	
11		MAIN PCB	1	CN-001A	
10	4856013301	SCREW CRT FIXING AS	2	30X140YL	
9		CRT(20")	1		
8	4856013300	SCREW CRT FIXING AS	2	30X80BK	
7	4856215402	WASHER RUBBER	4	CR T2.1	
6	7128301011	SCREW TAPPING	4	T2S WAS 3X10 MFZN	
5		SPEAKER	1		
4	4855536201	DECO SENSOR	1	PMMA CL	
3	4854939501	BUTTON	1	ABS BK	
2	4852067400	MASK FRONT	1	FR HIPS BK	
1	48556159SS	MARK BRAND	1	SILVER ETCHING DIA-CUTTING	

6. DTQ-20V3FSN



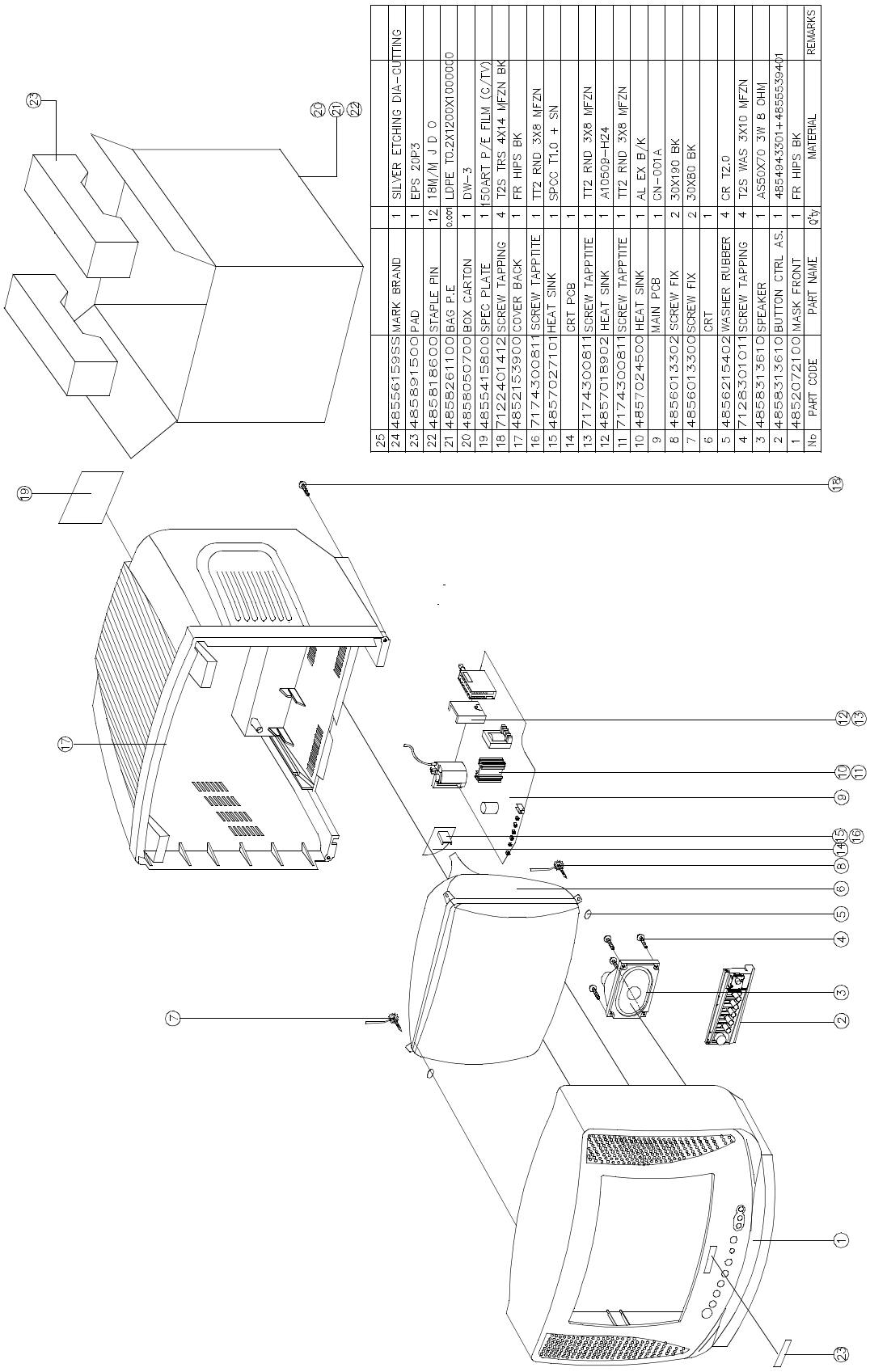
No	PART CODE	PART NAME	Q'ty	MATERIAL	REMARKS
1	4852068400	FRONT MASK	1	FR HIPS BK	
2	4852058903	MARK BRAND	1	SILVER ETCHING DIA-CUTTING	
3	4852056900	DECO SENSOR	1	PMMA CL	
4	4854944001	BUTTON	1	ABS BK	
5	7125700011	SCREW HAPPUS	2	TCS M4S 30UU MFZN	
6	4852012600	SPACER	1	AC 2012 3W @ BRN	
7	7125701111	SCREW TAPPING	4	TCS M4S 20UU MFZN	
8	4852025402	WASHER RUBBER	4	CR T2.0	
9	4852022300	SCREW CRT FIXING A6	2	SW980 BK	
10	4804954200A	CRT	1	A46ELL40X.MPAN	
11	4856013301	SCREW CRT FIXING A6	2	SW140 YL	
12		PCB	1		
13		CDVER BACK	1	FR HIPS BK	
14	4852082100	FDT	1		
15	7102401442	SCREW TAPPING	4	TCS M4S 14UU MFZN	
16	4852082700	PAD	1	EPS 20V3	
17	4852082800	JOX	1	DV-E	

7. DTQ-20V4FSN



No	PART NAME	MATERIAL	REMARKS
20	4858261100 BAG P.E	1 LDPE T0.02X1200X1000D	
19	4858213800 INTRODUCTION BAG	1 LDPE T0.05X250X400	
18	4658183100 PAD	1 EPS 20V4	
17	4858033738 BOX CARTON	1 DW - 3A	
16	ANT ROD	1 S3BW216BKL=600	
15	7122401412 SCREW TAPPING	4 T2S TRS 4X14 MFZN BK	2+14
14	4852151500 COVER BACK	1 FR HIPS BK	
13	FBT	1	
12	PCB	1	
11	4856013302 SCREW CRT FIXING AS.	2 30X190 BK	2+10
10	CRT	1	
9	4856013300 SCREW CRT FIXING AS.	2 30X80 BK	2+10
8	4856215402 WASHER RUBBER	4 CR T2.0	
7	7128301212 SCREW TAPPING	4 T2S WAS 3X12MFZN BK	2+6
6	4858313610 SPEAKER	1 AS 50X70 3W 8OHN	
5	7128301212 SCREW TAPPING	2 T2S WAS 3X12MFZN BK	2+4
4	4854941301 BUTTON	1 ABS BK	
3	4855537401 DECO SENSOR	1 PMMA CL	
2	4852069000 MASK FRONT	1 FR HIPS BK	
1	4856159SSS MARK BRAND	1 SILVER ETCHING DIA-CUTTING	

8. DTQ-20U1FSN



No	PART CODE	PART NAME	Q'ty	MATERIAL	REMARKS
25					
24	4855615955	MARK BRAND	1	SILVER ETCHING DIA-CUTTING	
23	4858915000	PAD	1	EPS 20P3	
22	4858186000	STAPLE PIN	12	18M/M J D O	
21	4858261100	BAG P.E	0.03m	LDPE T0.2X1200X1000OD	
20	4858050700	BOX CARTON	1	DW-3	
19	4855415800	SPEC PLATE	1	150ART P/E FILM (C/TV)	
18	7122401412	SCREW TAPPING	4	T2S TRS 4X14 MFZN BK	
17	4852153900	COVER BACK	1	FR HIPS BK	
16	7174300811	SCREW TAPPTITE	1	TT2 RND 3X8 MFZN	
15	4857027101	HEAT SINK	1	SPCC T1.0 + SN	
14		CRT PCB	1		
13	7174300811	SCREW TAPPTITE	1	TT2 RND 3X8 MFZN	
12	4857018902	HEAT SINK	1	A10509-H24	
11	7174300811	SCREW TAPPTITE	1	TT2 RND 3X8 MFZN	
10	4857024500	HEAT SINK	1	AL EX B/K	
9		MAIN PCB	1	CN-001A	
8	4856013302	SCREW FIX	2	30X190 BK	
7	4856013300	SCREW FIX	2	30X80 BK	
6		CRT	1		
5	4856215402	WASHER RUBBER	4	CR T2.0	
4	7128301011	SCREW TAPPING	4	T2S WAS 3X10 MFZN	
3	4858313610	SPEAKER	1	AS50X70 3W 8 OHM	
2	4858313610	BUTTON CTRL ASS	1	4854943301+4855539401	
1	4852072100	MASK FRONT	1	FR HIPS BK	

ELECTRICAL PARTS LIST

CAUTION : In this Service Manual, some parts can be changed for improving their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List)in Service information Center(http://svc.dwe.co.kr)

"⚠" Parts recommended for stock.

"Ⓡ" Safety critical componen, Replace only with genuine Daewoo safety parts.

LOC	PART CODE	PART NAME	DESCRIPTION	RE-MARK
ZZ100	48B4343A01	TRANSMITTER REMOCON	R-43A01 (AA)	
ZZ110	PTACPWH394	ACCESSORY AS	DTQ-14P2FC	
00010	4850A02510	ANT ROD	S3BW216B (L=600 MM)	
00030	4850Q00810	BATTERY	R6P/LN	
00040	4850A00250	TRANS ANT MATCHING	IMT-06	
10000	48586001E2	MANUAL INSTRUCTION	DTQ-20V1FS	
M821	4858213800	BAG INSTRUCTION	L.D.P.E T0.05X250X400	
ZZ120	PTBCSHH488	COVER BACK AS	DTQ-14V1FCN	
M211	4852151400	COVER BACK	FR HIPS BK	
M211B	4857817640	CLOTH BLACK	FELT 100X20X0.7	
ZZ130	PTPKCPH488	PACKING AS	DTQ-14V1FCN	
10	6520010100	STAPLE PIN	AUTO W65	
M801	485803871D	BOX CARTON	SW-2	
M811	4858186700	PAD	EPS 14V1	
M821	4858215700	BAG PE	PE FOAM t0.5x1000X950	
ZZ131	58G0000078	COIL DEGAUSSING	DC-1400	
ZZ132	48519A4710	CRT GROUND NET	1401S-1015-1P	
ZZ140	PTCACAH488	CABINET AS	DTQ-14V1FCN	
CRT1	PTRTPWH394	CRT AS	"NTSC 14"" ITC CRT AS"	
V01	58D0000082	COIL DY	ODY-M1489	⚠
V04	2224050026	BOND SILICON	RTV 122 CARTRIDGE	
V05	4850PM001-	MAGNET CP	NY-225 (MINI NECK)	
V06	48A96R004-	RUBBER WEDGE	HMR 28 SR (/0X54)	
V901	48A96314C3	CRT BARE	A34KQV42X	
M201A	4856013350	SCREW CRT FIXING	25X80 BK	
M211A	7172401412	SCREW TAPPTITE	TT2 TRS 4X14 MFZN BK	
M541	4855415800	SPEC PLATE	150ART P/E FILM (C/TV)	
M601	4856013351	SCREW CRT FIXING	25X140 YL	
M681	4856812001	TIE CABLE	NYLON66 DA100	
SP01A	7178301011	SCREW TAPPTITE	TT2 WAS 3X10 MFZN	
ZZ200	PTFMSJH488	MASK FRONT AS	DTQ-14V1FCN	
M191	4851931800	BUTTON CTRL	4939100+5536001	
M191A	7178301011	SCREW TAPPTITE	TT2 WAS 3X10 MFZN	
M201	4852067200	MASK FRONT	FR HIPS BK	
M321	4853214800	BRKT	FR HIPS BK	
M561	4855613600	MARK BRAND	COPPER T0.4	
ZZ202	PTSPPWH407	SPEAKER AS	DTQ-14J4FC	
PA601	4850703S50	CONNECTOR	YH025-03+35098+ULW=200	
SP01	4858314010	SPEAKER	SP-5070F01 3W 8 OHM	Ⓡ
ZZ290	PTMPMSH488	PCB MAIN MANUAL AS	DTQ-14V1FCN	Ⓡ
10	2193102005	SOLDER BAR	SN:PB=63:47 S63S-1320	

LOC	PART CODE	PART NAME	DESCRIPTION	RE-MARK
100	2291130215	GREASE SILICON	G-600	
20	2193011101	SOLDER WIRE	RS 60-1.2 1.6A	
30	2291050616	FLUX SOLDER	JS-64T3	
40	2291050301	FLUX SOLVENT	IM-1000	
80	2TP07545CL	TAPE OPP	45X50 CLEAR	
C403	CCYB2H103K	C CERA	500V B 0.01MF K	
C404	CMYH3C722H	C MYLAR	1.6KV BUP 7200PF H	
C406	CMYE2D434J	C MYLAR	200V PU 0.43MF J	
C801	CL1UC3104M	C LINE ACROSS	WORLD AC250V 0.1UF M R.47	
C802	CMYH3C332J	C MYLAR	1.6KV BUP 3300PF J	
C804	CEYN2D331P	C ELECTRO	200V LHS 330MF	
C881	CH1BFE472M	C CERA AC	AC400V 4700PF M U/C/V	⚠
C882	CH1BFE472M	C CERA AC	AC400V 4700PF M U/C/V	⚠
D703	DLH2PR----	LED BLOCK	LH-2P-R	
F801	5F1GB4021L	FUSE GLASS TUBE	UL/CSA TL 4A 125V MF51	Ⓡ ⚠
I101	1DCT814B--	IC CHROMA	DCT814B	Ⓡ
I301	PTD2SW7101	HEAT SINK ASS`Y	1LA7840--- + 7174300811	
00001	1LA7840---	IC VERTICAL	LA7840	Ⓡ
0000A	4857027101	HEAT SINK	SPCC T1.0+SN	
0000B	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN	
I401	1K1A7805P1	IC REGULATOR	KIA7805API	
I601	1TDA7267--	IC AUDIO AMP	TDA7267	Ⓡ
I701	1DW8634NA2	IC MICOM	DW863432V-NA2	Ⓡ
I703	124LC04B--	IC MEMORY	24LC04B	Ⓡ
I801	1MA8630---	IC POWER	MA8630	Ⓡ ⚠
I802	1LTV817C--	IC PHOTO COUPLER	LTV-817C	
I803	1DP133----	IC ERROR AMP	DP133	Ⓡ
IL701	1356VF6---	IC PREAMP	356VF6	
JP02	4859109950	JACK PIN BOARD	PH-JB-9710A	
JP03	4859109150	JACK PIN BOARD	PH-JB-9615C	
L501	58N0000042	COIL VCO	TRF-V008	
L801	5PLF24A1--	FILTER LINE	LF-24A1	⚠
M681	4856812001	TIE CABLE	NYLON66 DA100	
P401	4859240020	CONN WAFER	YFW500-05	
P501	4850708N11	CONNECTOR	BIC-08T-25T+C-20T+ULW=300	
PWC1	4859907910	CORD POWER AS	ME301P+TER=1830	Ⓡ⚠
Q402	TKSC5386--	TR	KSC5386	Ⓡ
Q902	TKTC3229--	TR	KTC3229	
Q903	TKTC3229--	TR	KTC3229	
Q904	TKTC3229--	TR	KTC3229	
R801	RX07B229JP	R CEMENT	7W 2.2 OHM J BEN 15MM 4P	
R881	DEC7R0M140	POSISTOR	ECPAC7R0M140	
RLY1	5SC0101338	SW RELAY	DQ5D1-O(M)/GJ-SS-105LM	⚠

ELECTRICAL PARTS LIST

LOC	PART CODE	PART NAME	DESCRIPTION	RE-MARK
RS801	DSVC471D14	VARISTOR	SVC471D14A	⚠
SCT1	4859303930	SOCKET CRT	ISMG03S INCHANG	Ⓡ ⚠
SF101	5PTSF5241P	FILTER SAW	TSF5241P	
T401	50D10A3---	TRANS DRIVE	TD-10A3	
T402	50H0000198	FBT	FSA37012M	
T801	50M3541T2-	TRANS SMPS	TSM-3541T2	⚠
U102	4859721730	TUNER VARACTOR	DT5-NF20F N	Ⓡ ⚠
X701	5XYR03276C	CRYSTAL QUARTZ	C-001R 32.768000KHZ 20PPM	
Z501	5PYXT4R5MB	FILTER CERA	XT 4.5MB	
ZZ200	PTMPJ0H488	PCB MAIN (RHU) AS	DTQ-14V1FCN	
C105	CEXF1C471V	C ELECTRO	16V RSS 470MF (8X12)TP	
C310	CEXF1E102V	C ELECTRO	25V RSS 1000MF (13X20) TP	
C410	CEXF2E100V	C ELECTRO	250V RSS 10MF (10X20) TP	
C414	CEXF1V471V	C ELECTRO	35V RSS 470MF (10X20) TP	
C415	CEXF1C102V	C ELECTRO	16V RSS 1000MF (10X20) TP	
C502	CEXF1C471V	C ELECTRO	16V RSS 470MF (8X12)TP	
C510	CEXF1C471V	C ELECTRO	16V RSS 470MF (8X12)TP	
C514	CEXF1C471V	C ELECTRO	16V RSS 470MF (8X12)TP	
C602	CEXF1C102V	C ELECTRO	16V RSS 1000MF (10X20) TP	
C646	CEXF1C471V	C ELECTRO	16V RSS 470MF (8X12)TP	
C812	CEXF1C102V	C ELECTRO	16V RSS 1000MF (10X20) TP	
C813	CCXB3A221K	C CERA	1KV B 220PF K (TAPPING)	
C814	CEXF2C101V	C ELECTRO	160V RSS 100MF (16X25) TP	
C820	CEXF2C101V	C ELECTRO	160V RSS 100MF (16X25) TP	
C912	CH1BEE472M	C CERA AC	U/C/V 2.5KV 4700PF TP	
ZZ200	PTMPJBH488	PCB MAIN M-10 AS	DTQ-14V1FCN	
10	2TM18006BE	TAPE MASKING	6.2X500	
D401	D1N4937G--	DIODE	1N4937G (TAPPING)	
D405	D1N4937G--	DIODE	1N4937G (TAPPING)	
D406	D1N4937G--	DIODE	1N4937G (TAPPING)	
D407	D1N4937G--	DIODE	1N4937G (TAPPING)	
D408	D1N4937G--	DIODE	1N4937G (TAPPING)	
D802	D1N4937G--	DIODE	1N4937G (TAPPING)	
D807	DRGP15J---	DIODE	RGP15J	
D813	D1N4937G--	DIODE	1N4937G (TAPPING)	
D824	DZY160----	DIODE ZENER	ZY160	
D881	DLT2A05G--	DIODE	LT2A05G (TP)	
D882	DLT2A05G--	DIODE	LT2A05G (TP)	
D883	DLT2A05G--	DIODE	LT2A05G (TP)	
D884	DLT2A05G--	DIODE	LT2A05G (TP)	
E001	4856310600	EYE LET	BSR T0.2 (R2.3)	
E004	4856310600	EYE LET	BSR T0.2 (R2.3)	
E005	4856310600	EYE LET	BSR T0.2 (R2.3)	
E006	4856310600	EYE LET	BSR T0.2 (R2.3)	
E007	4856310600	EYE LET	BSR T0.2 (R2.3)	
E008	4856310600	EYE LET	BSR T0.2 (R2.3)	
E009	4856310300	EYE LET	BSR T0.2 (R1.6)	
E010	4856310300	EYE LET	BSR T0.2 (R1.6)	
E011	4856310300	EYE LET	BSR T0.2 (R1.6)	
E012	4856310300	EYE LET	BSR T0.2 (R1.6)	
E013	4856310300	EYE LET	BSR T0.2 (R1.6)	

LOC	PART CODE	PART NAME	DESCRIPTION	RE-MARK
E014	4856310300	EYE LET	BSR T0.2 (R1.6)	
E018	4856310300	EYE LET	BSR T0.2 (R1.6)	
E019	4856310300	EYE LET	BSR T0.2 (R1.6)	
E020	4856310300	EYE LET	BSR T0.2 (R1.6)	
E021	4856310600	EYE LET	BSR T0.2 (R2.3)	
E022	4856310300	EYE LET	BSR T0.2 (R1.6)	
E023	4856310300	EYE LET	BSR T0.2 (R1.6)	
E024	4856310600	EYE LET	BSR T0.2 (R2.3)	
E025	4856310300	EYE LET	BSR T0.2 (R1.6)	
E026	4856310300	EYE LET	BSR T0.2 (R1.6)	
E027	4856310300	EYE LET	BSR T0.2 (R1.6)	
E028	4856310300	EYE LET	BSR T0.2 (R1.6)	
E029	4856310300	EYE LET	BSR T0.2 (R1.6)	
E030	4856310600	EYE LET	BSR T0.2 (R2.3)	
E031	4856310600	EYE LET	BSR T0.2 (R2.3)	
E033	4856310600	EYE LET	BSR T0.2 (R2.3)	
E034	4856310600	EYE LET	BSR T0.2 (R2.3)	
E035	4856310600	EYE LET	BSR T0.2 (R2.3)	
E036	4856310600	EYE LET	BSR T0.2 (R2.3)	
E037	4856310600	EYE LET	BSR T0.2 (R2.3)	
E038	4856310600	EYE LET	BSR T0.2 (R2.3)	
E039	4856310300	EYE LET	BSR T0.2 (R1.6)	
E040	4856310300	EYE LET	BSR T0.2 (R1.6)	
E041	4856310300	EYE LET	BSR T0.2 (R1.6)	
E042	4856310300	EYE LET	BSR T0.2 (R1.6)	
E043	4856310300	EYE LET	BSR T0.2 (R1.6)	
E044	4856310300	EYE LET	BSR T0.2 (R1.6)	
E045	4856310300	EYE LET	BSR T0.2 (R1.6)	
E046	4856310300	EYE LET	BSR T0.2 (R1.6)	
E047	4856310300	EYE LET	BSR T0.2 (R1.6)	
E050	4856310300	EYE LET	BSR T0.2 (R1.6)	
E051	4856310300	EYE LET	BSR T0.2 (R1.6)	
P601	485923162S	CONN WAFER	YW025-03 (STICK)	
P801A	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)	
P801B	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)	
R601	RF01Z688K-	R FUSIBLE	1W 0.68 OHM K (TAPPING)	
R814	RS02Z828JS	R M-OXIDE FILM	2W 0.82 OHM J SMALL	
ZZ200	PTMPJRH488	PCB MAIN RADIAL AS	DTQ-14V1FCN	
C101	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C102	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
C103	CEXF1H339V	C ELECTRO	50V RSS 3.3MF (5X11) TP	
C104	CMXM2A333J	C MYLAR	100V 0.033MF J (TP)	
C106	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C107	CEXF1H228V	C ELECTRO	50V RSS 0.22MF (5X11) TP	
C212	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	
C235	CEXD1H229F	C ELECTRO	50V RND 2.2MF (5X11) TP	
C301	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)	
C302	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP	
C303	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	
C305	CEXF1H101V	C ELECTRO	50V RSS 100MF (8X11.5) TP	
C307	CXSL2H100D	C CERA	500V SL 10PF D (TAPPING)	

ELECTRICAL PARTS LIST

LOC	PART CODE	PART NAME	DESCRIPTION	RE-MARK
C308	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	
C311	CEXD1H229Q	C ELECTRO	50V RT 2.2MF (6.3X11) TP	
C401	CCXB2H102K	C CERA	500V B 1000PF K (TAPPING)	
C405	CEXF2C109V	C ELECTRO	160V RSS 1MF (6.3X11) TP	
C408	CEXF1H220V	C ELECTRO	50V RSS 22MF (5X11) TP	
C411	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	
C413	CCXB2H102K	C CERA	500V B 1000PF K (TAPPING)	
C418	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	
C451	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
C452	CEXF1C221V	C ELECTRO	16V RSS 220MF (8X11.5) TP	
C501	CMXL1J105J	C MYLAR	63V MEU 1MF J	
C507	CMXM2A224J	C MYLAR	100V 0.22MF J	
C508	CMXM2A224J	C MYLAR	100V 0.22MF J	
C509	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C511	CMXM2A333J	C MYLAR	100V 0.033MF J (TP)	
C512	CEXF1H108V	C ELECTRO	50V RSS 0.1MF (5X11) TP	
C513	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C516	CEXF1H229V	C ELECTRO	50V RSS 2.2MF (5X11) TP	
C517	CMXM2A473J	C MYLAR	100V 0.047MF J (TP)	
C518	CEXF1H478V	C ELECTRO	50V RSS 0.47MF (5X11) TP	
C519	CEXF1H478V	C ELECTRO	50V RSS 0.47MF (5X11) TP	
C520	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C525	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C554	CMXM2A153J	C MYLAR	100V 0.015MF J (TP)	
C556	CXCH1H809D	C CERA	50V CH 8PF D (TAPPING)	
C576	CEXF1C221V	C ELECTRO	16V RSS 220MF (8X11.5) TP	
C580	CCXB1H152K	C CERA	50V B 1500PF K (TAPPING)	
C601	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)	
C603	CEXF1H108V	C ELECTRO	50V RSS 0.1MF (5X11) TP	
C604	CEXF1H470V	C ELECTRO	50V RSS 47MF (6.3X11) TP	
C634	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP	
C662	CCXF1H153Z	C CERA	50V F 0.015MF Z	
C701	CEXF1H470V	C ELECTRO	50V RSS 47MF (6.3X11) TP	
C702	CEXF1C221V	C ELECTRO	16V RSS 220MF (8X11.5) TP	
C703	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C704	CEXF1H229V	C ELECTRO	50V RSS 2.2MF (5X11) TP	
C705	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C757	CCXF1H333Z	C CERA	50V F 0.033MF Z (TAPPING)	
C780	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C807	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)	
C809	CMXM2A102J	C MYLAR	100V 1000PF J (TP)	
C810	CCXB2H222K	C CERA	500V B 2200PF K (TAPPING)	!
C811	CCXB2H222K	C CERA	500V B 2200PF K (TAPPING)	!
C815	CEXF2A100V	C ELECTRO	100V RSS 10MF (6.3X11) TP	
C818	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
C819	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP	
C850	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	
C876	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
F801A	4857415001	CLIP FUSE	PFC5000-0702	
F801B	4857415001	CLIP FUSE	PFC5000-0702	
L601	58CX430599	COIL CHOKE	AZ-9004Y 940K TP	

LOC	PART CODE	PART NAME	DESCRIPTION	RE-MARK
L805	58CX430599	COIL CHOKE	AZ-9004Y 940K TP	
L901	5CPX221J--	COIL PEAKING	220UH J (RADIAL)	
Q201	TKSC945CY-	TR	KSC 945C-Y (TAPPING)	
Q401	TKSC2330Y-	TR	KSC2330Y (TP)	
Q403	TKSC945CY-	TR	KSC 945C-Y (TAPPING)	
Q404	TKSC945CY-	TR	KSC 945C-Y (TAPPING)	
Q501	TKTA1266Y-	TR	KTA1266Y (TP)	
Q575	TKTA1275Y-	TR	KTA1275Y (TP)	
Q701	TKSC945CY-	TR	KSC 945C-Y (TAPPING)	
Q702	TKSC945CY-	TR	KSC 945C-Y (TAPPING)	
Q703	TKSC945CY-	TR	KSC 945C-Y (TAPPING)	
Q704	TKTA1266Y-	TR	KTA1266Y (TP)	
Q707	TKSC945CY-	TR	KSC 945C-Y (TAPPING)	
Q804	TKTA1275Y-	TR	KTA1275Y (TP)	
Q805	TKTC3205Y-	TR	KTC3205Y (TP)	
Q851	TKSC945CY-	TR	KSC 945C-Y (TAPPING)	
Q977	TKTA1266Y-	TR	KTA1266Y (TP)	
R301	RN01B471JS	R METAL FILM	1W 470 OHM J SMALL	
R302	RN01B471JS	R METAL FILM	1W 470 OHM J SMALL	
R303	RN01B129JS	R METAL FILM	1W 1.2 OHM J SMALL	
R305	RN01B331JS	R METAL FILM	1W 330 OHM J SMALL	
R403	RN01B562JS	R METAL FILM	1W 5.6K OHM J SMALL	
R411	RN01B229JS	R METAL FILM	1W 2.2 OHM J SMALL	
R412	RN01B369JS	R METAL FILM	1W 3.6 OHM J SMALL	
R413	RN01B229JS	R METAL FILM	1W 2.2 OHM J SMALL	
R414	RN01B229JS	R METAL FILM	1W 2.2 OHM J SMALL	
R418	RN02B150JS	R METAL FILM	2W 15 OHM J SMALL	
R420	RN02B620JS	R METAL FILM	2W 62 OHM J SMALL	
R817	RN01B471JS	R METAL FILM	1W 470 OHM J SMALL	
R913	RN02B123JS	R METAL FILM	2W 12K OHM J SMALL	
R914	RN02B123JS	R METAL FILM	2W 12K OHM J SMALL	
R915	RN02B123JS	R METAL FILM	2W 12K OHM J SMALL	
SW701	5S50101090	SW TACT	THVH472GCA	
SW702	5S50101090	SW TACT	THVH472GCA	
SW703	5S50101090	SW TACT	THVH472GCA	
SW704	5S50101090	SW TACT	THVH472GCA	
SW705	5S50101090	SW TACT	THVH472GCA	
SW706	5S50101090	SW TACT	THVH472GCA	
X502	5XEX3R579C	CRYSTAL QUARTZ	HC-49/U 3.579545M (TP)	
ZZ200	PTMPJAH488	PCB MAIN AXIAL AS	DTQ-14V1FCN	
10	2TM14006LB	TAPE MASKING	3M #232 6.0X2000M	
20	2TM10006LB	TAPE MASKING	3M #232-MAP-C 6.2X2000M	
A001	4859814991	PCB MAIN	246X246 S1B	
C109	CCZF1H103Z	C CERA	50V F 0.01MF Z	
C152	CCZF1H103Z	C CERA	50V F 0.01MF Z	
C153	CCZF1H103Z	C CERA	50V F 0.01MF Z	
C154	CCZF1H103Z	C CERA	50V F 0.01MF Z	
C155	CCZF1H103Z	C CERA	50V F 0.01MF Z	
C527	CCZB1H102K	C CERA	50V B 1000PF K (AXIAL)	
C551	CCZB1H101K	C CERA	50V B 100PF K (AXIAL)	
C552	CCZB1H101K	C CERA	50V B 100PF K (AXIAL)	

ELECTRICAL PARTS LIST

LOC	PART CODE	PART NAME	DESCRIPTION	RE-MARK
C555	CBZR1C392M	C CERA	16V Y5R 3900PF M (AXIAL)	
C560	CCZF1H103Z	C CERA	50V F 0.01MF Z	
C562	CZCH1H180J	C CERA	50V CH 18PF J (AXIAL)	
C567	CCZB1H181K	C CERA	50V B 180PF K (AXIAL)	
C568	CCZF1H103Z	C CERA	50V F 0.01MF Z	
C569	CCZF1H103Z	C CERA	50V F 0.01MF Z	
C570	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
C571	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
C573	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
C575	CCZB1H102K	C CERA	50V B 1000PF K (AXIAL)	
C612	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
C752	CZCH1H180J	C CERA	50V CH 18PF J (AXIAL)	
C753	CZCH1H180J	C CERA	50V CH 18PF J (AXIAL)	
C754	CCZF1H103Z	C CERA	50V F 0.01MF Z	
C755	CCZF1H103Z	C CERA	50V F 0.01MF Z	
C756	CCZB1H221K	C CERA	50V B 220PF K (AXIAL)	
C758	CCZB1H101K	C CERA	50V B 100PF K (AXIAL)	
C759	CCZB1H101K	C CERA	50V B 100PF K (AXIAL)	
C760	CCZB1H101K	C CERA	50V B 100PF K (AXIAL)	
C768	CCZB1H101K	C CERA	50V B 100PF K (AXIAL)	
C790	CCZF1H103Z	C CERA	50V F 0.01MF Z	
C796	CCZF1H103Z	C CERA	50V F 0.01MF Z	
C902	CCZB1H271K	C CERA	50V B 270PF K	
C903	CCZB1H271K	C CERA	50V B 270PF K	
C904	CCZB1H271K	C CERA	50V B 270PF K	
D101	DUZ33B----	DIODE ZENER	UZ-33B	
D102	DUZ5R1B---	DIODE ZENER	UZ-5.1B	
D221	D1N4148---	DIODE	1N4148 (TAPPING)	
D301	D1N4004S--	DIODE	1N4004S	
D311	DBZX55C62-	DIODE ZENER	BZX55C-62	
D312	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
D409	D1N4148---	DIODE	1N4148 (TAPPING)	
D502	D1N4148---	DIODE	1N4148 (TAPPING)	
D503	DUZ9R1BM--	DIODE ZENER	UZ-9.1BM	
D504	D1N4148---	DIODE	1N4148 (TAPPING)	
D505	DUZ9R1BM--	DIODE ZENER	UZ-9.1BM	
D541	D1N4148---	DIODE	1N4148 (TAPPING)	
D571	D1N4148---	DIODE	1N4148 (TAPPING)	
D572	D1N4148---	DIODE	1N4148 (TAPPING)	
D573	D1N4148---	DIODE	1N4148 (TAPPING)	
D574	D1N4148---	DIODE	1N4148 (TAPPING)	
D701	D1N4148---	DIODE	1N4148 (TAPPING)	
D704	DUZ3R9B---	DIODE ZENER	UZ-3.9B	
D777	DUZ5R6BM--	DIODE ZENER	UZ-5.6BM	
D790	D1N4148---	DIODE	1N4148 (TAPPING)	
D812	DUZ5R6BM--	DIODE ZENER	UZ-5.6BM	
D841	D1N4937G--	DIODE	1N4937G (TAPPING)	
D851	DUZ8R2BM--	DIODE ZENER	UZ-8.2BM	
J001	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J002	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J007	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	

LOC	PART CODE	PART NAME	DESCRIPTION	RE-MARK
J009	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J010	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J011	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J012	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J013	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J016	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J017	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J018	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J019	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J020	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J021	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J022	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J023	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J024	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J025	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J026	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J028	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J029	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J030	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J032	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J034	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J036	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J037	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J039	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J042	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J045	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J047	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J050	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J053	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J054	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J055	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J056	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J057	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J058	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J060	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J062	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J072	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J080	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J111	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J112	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J113	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J202	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J402	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J444	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J445	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J507	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J524	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J701	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J702	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J703	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J704	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	

LOC	PART CODE	PART NAME	DESCRIPTION	RE-MARK
J711	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J738	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J739	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J753	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J777	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J778	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J790	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J801	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J815	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J844	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J881	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J950	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J977	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J999	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
L111	5CPZ568M02	COIL PEAKING	0.56UH M (AXIAL 3.5MM)	
L112	5CPZ569K02	COIL PEAKING	5.6UH K (AXIAL 3.5MM)	
L502	5CPZ470K04	COIL PEAKING	47UH 10.5MM K (LAL04TB)	
L533	5CPZ150K02	COIL PEAKING	15UH K (AXIAL 3.5MM)	
L701	5CPZ220K02	COIL PEAKING	22UH K (AXIAL 3.5MM)	
L807	5MC0000100	COIL BEAD	HC-3550	
L811	5MC0000100	COIL BEAD	HC-3550	
L841	5MC0000100	COIL BEAD	HC-3550	
R105	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J	
R150	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J	
R151	RD-AZ104J-	R CARBON FILM	1/6 100K OHM J	
R154	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
R156	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
R165	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R223	RD-AZ224J-	R CARBON FILM	1/6 220K OHM J	
R224	RD-AZ224J-	R CARBON FILM	1/6 220K OHM J	
R225	RD-AZ392J-	R CARBON FILM	1/6 3.9K OHM J	
R226	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R227	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R228	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R229	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
R306	RD-AZ273J-	R CARBON FILM	1/6 27K OHM J	
R307	RD-AZ333J-	R CARBON FILM	1/6 33K OHM J	
R308	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J	
R309	RD-AZ113J-	R CARBON FILM	1/6 11K OHM J	
R351	RD-AZ682J-	R CARBON FILM	1/6 6.8K OHM J	
R352	RN-4Z1603F	R METAL FILM	1/4 160K OHM F	
R353	RN-4Z1502F	R METAL FILM	1/4 15K OHM F	
R401	RD-4Z472J-	R CARBON FILM	1/4 4.7K OHM J	
R405	RD-2Z751J-	R CARBON FILM	1/2 750 OHM J	
R416	RD-2Z121J-	R CARBON FILM	1/2 120 OHM J	
R417	RD-4Z302J-	R CARBON FILM	1/4 3K OHM J	
R423	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R424	RD-AZ331J-	R CARBON FILM	1/6 330 OHM J	
R451	RD-4Z153J-	R CARBON FILM	1/4 15K OHM J	
R452	RD-4Z113J-	R CARBON FILM	1/4 11K OHM J	
R453	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	

LOC	PART CODE	PART NAME	DESCRIPTION	RE-MARK
R501	RD-2Z151J-	R CARBON FILM	1/2 150 OHM J	
R502	RD-2Z151J-	R CARBON FILM	1/2 150 OHM J	
R503	RD-AZ752J-	R CARBON FILM	1/6 7.5K OHM J	
R504	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R508	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R509	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R510	RD-AZ561J-	R CARBON FILM	1/6 560 OHM J	
R511	RD-AZ123J-	R CARBON FILM	1/6 12K OHM J	
R525	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R526	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R530	RD-AZ561J-	R CARBON FILM	1/6 560 OHM J	
R531	RD-AZ561J-	R CARBON FILM	1/6 560 OHM J	
R533	RD-AZ390J-	R CARBON FILM	1/6 39 OHM J	
R541	RD-AZ682J-	R CARBON FILM	1/6 6.8K OHM J	
R542	RD-AZ332J-	R CARBON FILM	1/6 3.3K OHM J	
R548	RD-AZ154J-	R CARBON FILM	1/6 150K OHM J	
R551	RD-AZ121J-	R CARBON FILM	1/6 120 OHM J	
R554	RD-AZ514J-	R CARBON FILM	1/6 510K OHM J	
R555	RD-AZ241J-	R CARBON FILM	1/6 240 OHM J	
R557	RD-AZ182J-	R CARBON FILM	1/6 1.8K OHM J	
R558	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R559	RD-AZ331J-	R CARBON FILM	1/6 330 OHM J	
R561	RD-AZ561J-	R CARBON FILM	1/6 560 OHM J	
R562	RD-AZ914J-	R CARBON FILM	1/6 910K OHM J	
R565	RD-AZ123J-	R CARBON FILM	1/6 12K OHM J	
R566	RD-AZ123J-	R CARBON FILM	1/6 12K OHM J	
R567	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R568	RN-AZ4701F	R METAL FILM	1/6 4.7K OHM F	
R569	RD-AZ152J-	R CARBON FILM	1/6 1.5K OHM J	
R570	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R572	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J	
R573	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R591	RD-4Z331J-	R CARBON FILM	1/4 330 OHM J	
R592	RD-4Z331J-	R CARBON FILM	1/4 330 OHM J	
R593	RD-4Z331J-	R CARBON FILM	1/4 330 OHM J	
R602	RD-2Z271J-	R CARBON FILM	1/2 270 OHM J	
R604	RD-4Z682J-	R CARBON FILM	1/4 6.8K OHM J	
R629	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R630	RD-AZ104J-	R CARBON FILM	1/6 100K OHM J	
R655	RD-AZ162J-	R CARBON FILM	1/6 1.6K OHM J	
R701	RD-AZ240J-	R CARBON FILM	1/6 24 OHM J	
R703	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R704	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R705	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R706	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R707	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R709	RD-AZ392J-	R CARBON FILM	1/6 3.9K OHM J	
R731	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R732	RD-AZ132J-	R CARBON FILM	1/6 1.3K OHM J	
R733	RD-AZ132J-	R CARBON FILM	1/6 1.3K OHM J	
R734	RD-AZ132J-	R CARBON FILM	1/6 1.3K OHM J	

LOC	PART CODE	PART NAME	DESCRIPTION	RE-MARK
R735	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R736	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R737	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R738	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J	
R743	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R744	RD-AZ242J-	R CARBON FILM	1/6 2.4K OHM J	
R746	RD-AZ752J-	R CARBON FILM	1/6 7.5K OHM J	
R747	RD-AZ243J-	R CARBON FILM	1/6 24K OHM J	
R750	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R751	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J	
R752	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J	
R755	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R756	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R763	RD-AZ201J-	R CARBON FILM	1/6 200 OHM J	
R770	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R775	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R776	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
R777	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R778	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R779	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R780	RD-4Z471J-	R CARBON FILM	1/4 470 OHM J	
R781	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R782	RD-AZ331J-	R CARBON FILM	1/6 330 OHM J	
R783	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R784	RD-AZ514J-	R CARBON FILM	1/6 510K OHM J	
R786	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R787	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R788	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R789	RD-4Z102J-	R CARBON FILM	1/4 1K OHM J	
R790	RD-4Z102J-	R CARBON FILM	1/4 1K OHM J	
R791	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R792	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R793	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R794	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R796	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R797	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	

LOC	PART CODE	PART NAME	DESCRIPTION	RE-MARK
R799	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R802	RD-4Z205J-	R CARBON FILM	1/4 2M OHM J	
R804	RD-4Z201J-	R CARBON FILM	1/4 200 OHM J	
R805	RD-4Z152J-	R CARBON FILM	1/4 1.5K OHM J	
R806	RD-4Z752J-	R CARBON FILM	1/4 7.5K OHM J	⚠
R808	RD-4Z102J-	R CARBON FILM	1/4 1K OHM J	
R809	RD-4Z102J-	R CARBON FILM	1/4 1K OHM J	
R810	RD-4Z102J-	R CARBON FILM	1/4 1K OHM J	
R813	RD-AZ363J-	R CARBON FILM	1/6 36K OHM J	
R818	RD-4Z135J-	R CARBON FILM	1/4 1.3M OHM J	
R819	RD-4Z561J-	R CARBON FILM	1/4 560 OHM J	
R820	RD-4Z392J-	R CARBON FILM	1/4 3.9K OHM J	
R821	RD-AZ363J-	R CARBON FILM	1/6 36K OHM J	
R822	RD-4Z363J-	R CARBON FILM	1/4 36K OHM J	
R835	RD-4Z114J-	R CARBON FILM	1/4 110K OHM J	
R851	RD-4Z472J-	R CARBON FILM	1/4 4.7K OHM J	
R854	RD-4Z244J-	R CARBON FILM	1/4 240K OHM J	
R855	RD-4Z510J-	R CARBON FILM	1/4 51 OHM J	
R856	RD-4Z241J-	R CARBON FILM	1/4 240 OHM J	
R888	RC-2Z565KP	R CARBON COMP	1/2 5.6M OHM K	
R901	RD-4Z474J-	R CARBON FILM	1/4 470K OHM J	
R910	RD-2Z332J-	R CARBON FILM	1/2 3.3K OHM J	
R911	RD-2Z332J-	R CARBON FILM	1/2 3.3K OHM J	
R912	RD-2Z332J-	R CARBON FILM	1/2 3.3K OHM J	
R917	RD-AZ241J-	R CARBON FILM	1/6 240 OHM J	
R918	RD-AZ241J-	R CARBON FILM	1/6 240 OHM J	
R919	RD-AZ241J-	R CARBON FILM	1/6 240 OHM J	
R923	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J	
R924	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J	
R925	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J	
R933	RD-AZ121J-	R CARBON FILM	1/6 120 OHM J	
R934	RD-AZ121J-	R CARBON FILM	1/6 120 OHM J	
R935	RD-AZ121J-	R CARBON FILM	1/6 120 OHM J	
R977	RD-AZ201J-	R CARBON FILM	1/6 200 OHM J	
R978	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R979	RD-AZ202J-	R CARBON FILM	1/6 2K OHM J	

The different Parts List

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
C404	CMYH3C722H	C MYLAR	1.6KV BUP 7200PF H	"14"""
C404	CMYH3C602H	C MYLAR	1.6KV BUP 6000PF H	"15"""
C404	CMYH3C752H	C MYLAR	1.6KV BUP 7500PF H	"20"""
C406	CMYE2D434J	C MYLAR	200V PU 0.43MF J	"14"""
C406	CMYE2D334J	C MYLAR	200V PU 0.33MF J	"15"""
C406	CMYF2D624J	C MYLAR	200V MPP 0.62MF J	"20"""
C408	CEXF1H220V	C ELECTRO	50V RSS 22MF (5X11) TP	"14"""
C408	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	"15"""
C408	CEXF1H220V	C ELECTRO	50V RSS 22MF (5X11) TP	"20"""
C576	CEXF1C221V	C ELECTRO	16V RSS 220MF (8X11.5) TP	"14"""
C576	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP	"15"""
C576	CEXF1C221V	C ELECTRO	16V RSS 220MF (8X11.5) TP	"20"""
I803	1DP133----	IC ERROR AMP	DP133	"14""/20"""
I803	1SE125N---	IC	SE125N	"15"""
L402	58H0000016	COIL H-LINEARITY	L-102 (102UH)	"15"""
P501	4850708N11	CONNECTOR	BIC-08T-25T+C-20T+ULW=300	"14"""
P501	4850708N11	CONNECTOR	BIC-08T-25T+C-20T+ULW=300	"15"""
P501	4850708N08	CONNECTOR	BIC-08T-25T+C-20T+ULW=400	"20"""
R302	RN01B471JS	R METAL FILM	1W 470 OHM J SMALL	"14""/20"""
R311	RN02B680JS	R METAL FILM	2W 68 OHM J SMALL	"15"""
R351	RD-AZ682J-	R CARBON FILM	1/6 6.8K OHM J	"14""/20"""
R351	RD-AZ622J-	R CARBON FILM	1/6 6.2K OHM J	"15"""
R402	RN01B102JS	R METAL FILM	1W 1K OHM J SMALL	"15"""
R411	RN01B229JS	R METAL FILM	1W 2.2 OHM J SMALL	"14"""
R411	RN02B560JS	R METAL FILM	2W 56 OHM J SMALL	"15""/20"""
R412	RN01B369JS	R METAL FILM	1W 3.6 OHM J SMALL	"14"""
R413	RN01B229JS	R METAL FILM	1W 2.2 OHM J SMALL	"14""/20"""
R413	RN01B109JS	R METAL FILM	1W 1 OHM J SMALL	"15"""
R414	RN01B229JS	R METAL FILM	1W 2.2 OHM J SMALL	"14""/20"""
R414	RN01B109JS	R METAL FILM	1W 1 OHM J SMALL	"15"""
R442	RS02Z229JS	R M-OXIDE FILM	2W 2.2 OHM J SMALL	"20"""
R452	RD-4Z113J-	R CARBON FILM	1/4 11K OHM J	"14"""
R452	RD-4Z103J-	R CARBON FILM	1/4 10K OHM J	"15""/20"""
R503	RD-AZ752J-	R CARBON FILM	1/6 7.5K OHM J	"14"""
R503	RD-AZ622J-	R CARBON FILM	1/6 6.2K OHM J	"15"""
R503	RD-AZ562J-	R CARBON FILM	1/6 5.6K OHM J	"20"""
R526	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	"14"""
R526	RD-AZ821J-	R CARBON FILM	1/6 820 OHM J	"15""/20"""
R732	RD-AZ132J-	R CARBON FILM	1/6 1.3K OHM J	"14""/15"""
R732	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	"20"""
R733	RD-AZ132J-	R CARBON FILM	1/6 1.3K OHM J	"14""/15"""
R733	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	"20"""
R734	RD-AZ132J-	R CARBON FILM	1/6 1.3K OHM J	"14""/15"""
R734	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	"20"""
R814	RS02Z828JS	R M-OXIDE FILM	2W 0.82 OHM J SMALL	"14""/15"""
R814	RS01Z688J-	R M-OXIDE FILM	1W 0.68 OHM J	"20"""
R821	RD-AZ363J-	R CARBON FILM	1/6 36K OHM J	"14"""
R821	RD-AZ273J-	R CARBON FILM	1/6 27K OHM J	"15""/20"""
R881	DEC7R0M140	POSISTOR	ECPAC7R0M140	"14""/15"""
R882	DDB3R0M140	POSISTOR	ECPBD3R0M140	"20"""
R917	RD-AZ241J-	R CARBON FILM	1/6 240 OHM J	"14"""
R917	RD-AZ181J-	R CARBON FILM	1/6 180 OHM J	"15"""
R917	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J	"20"""
R918	RD-AZ241J-	R CARBON FILM	1/6 240 OHM J	"14"""
R918	RD-AZ181J-	R CARBON FILM	1/6 180 OHM J	"15"""
R918	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J	"20"""
R919	RD-AZ241J-	R CARBON FILM	1/6 240 OHM J	"14"""
R919	RD-AZ181J-	R CARBON FILM	1/6 180 OHM J	"15"""
R919	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J	"20"""
SCT1	4859303930	SOCKET CRT	ISMG03S INCHANG	"14"""
SCT1	4859303530	SOCKET CRT	PCS629-03C	"15""/20"""
T402	50H0000198	FBT	FSA37012M	"14"""
T402	50H0000210	FBT	LTC-509	"15""/20"""
V01	58D0000082	COIL DY	ODY-M1489	"14"""
V01	58D0000106	COIL DY	CDY-N1501	"15"""
V01	58D0000087	COIL DY	CDY-S2016	"20"""
V05	4850PM001-	MAGNET CP	NY-225 (MINI NECK)	"14"""
V05	4850PM010-	MAGNET CP	NY-88DTA	"15""/20"""
V901	48A96314C3	CRT BARE	A34KQV42X	"14"""
V901	48A96515M1	CRT BARE	A36QDT351X P38	"15"""
V901	48A96220C1	CRT BARE	A48AGY13X	"20"""
ZZ131	58G0000078	COIL DEGAUSSING	DC-1400	"14"""
ZZ131	58G0000152	COIL DEGAUSSING	DC-15S1	"15"""
ZZ131	58G0000141	COIL DEGAUSSING	DC-20S1	"20"""
ZZ132	48519A4710	CRT GROUND NET	1401S-1015-1P	"14"""
ZZ132	4851905810	CRT GROUND NET	1501S-1015-1P	"15"""
ZZ132	48519A5110	CRT GROUND NET	2001S-1015-1P	"20"""
ZZ290	PTMPMSH488	PCB MAIN MANUAL AS	"14"" PCB Assembly"	"14"""
ZZ290	PTMPMSH528	PCB MAIN MANUAL AS	"15"" PCB Assembly"	"15"""
ZZ290	PTMPMSJ826	PCB MAIN MANUAL AS	"20"" PCB Assembly"	"20"""
M201	4852067200	MASK FRONT	FR HIPS BK	"14"""
M201	4852076410	MASK FRONT	FR HIPS GY	"15"""
M201	4852067400	MASK FRONT	FR HIPS BK	"20"""
M211	4852151400	COVER BACK	FR HIPS BK	"14"""
M211	4852158310	COVER BACK	FR HIPS GY	"15"""
M211	4852151500	COVER BACK	FR HIPS BK	"20"""
M801	485803871D	BOX CARTON	SW-2	"14"""
M801	4858058700	BOX CARTON	SW-2	"15"""
M801	4858033700	BOX CARTON	"DW-3 2058,2051"	"20"""
M811	4858186700	PAD	EPS 14V1	"14"""
M811	4858196200	PAD	EPS	"15"""
M811	4858186900	PAD	EPS 20V1	"20"""
M821	4858215700	BAG PE	PE FOAM t0.5x1000X950	"14"""
M821	4858219200	BAG P.E	P.E FOAM T0.5X1100X950	"15"""
M821	4858210700	BAG P.E	L.D.P.E T0.03X1200X1000	"20"""

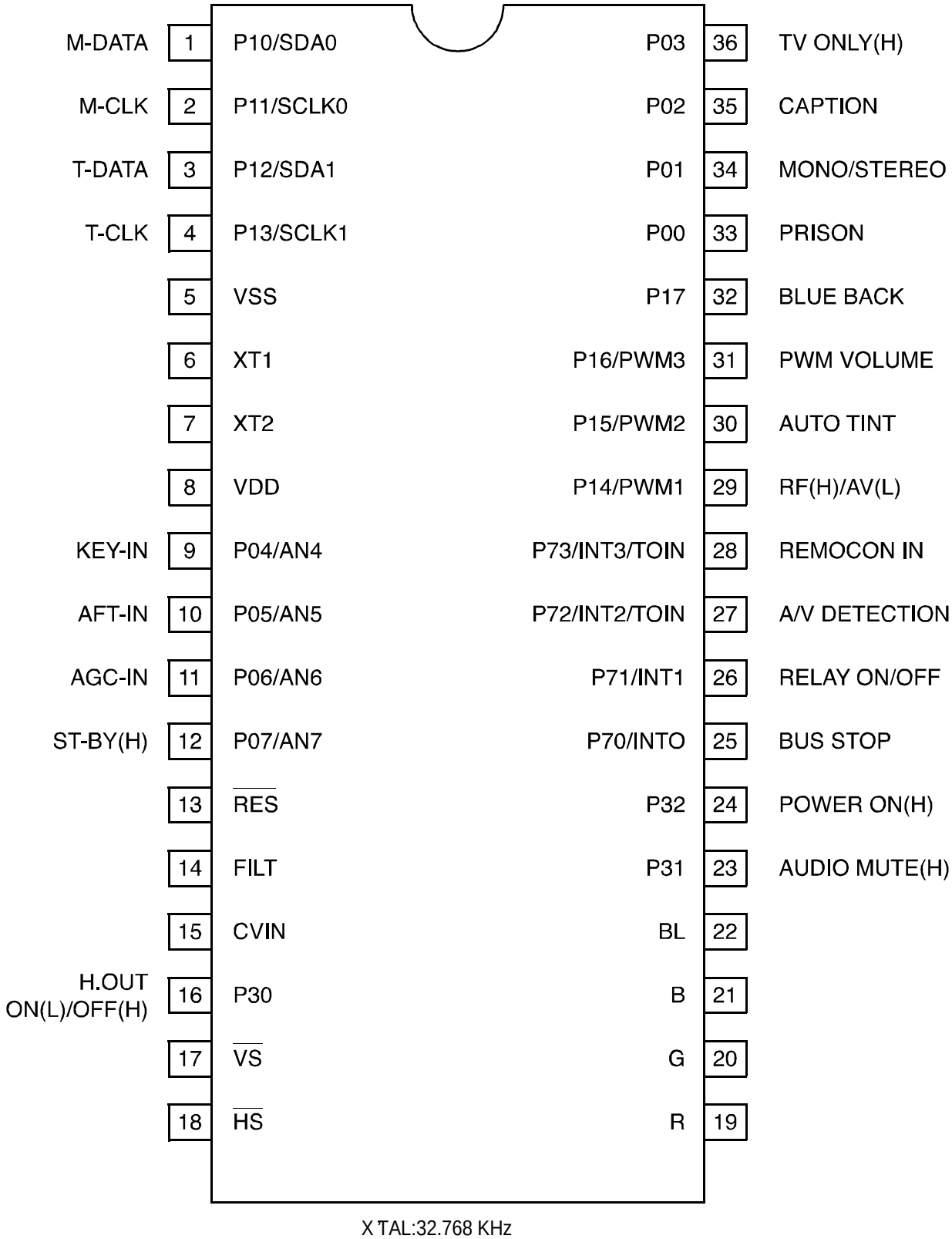
DAEWOO

DAEWOO ELECTRONICS CO., LTD

686, AHYEON-DONG MAPO-GU
SEOUL, KOREA
C.P.O. BOX 8003 SEOUL, KOREA
TELEX : DWELEC K28177-8
CABLE : "DAEWOOELEC"

IC DESCRIPTION

U-COM(I701)



1. Abstract.

This specification is 1-Tuner Mono Model for North/South America, CCD 1-Chip MICOM LC863228A.
It is developing software specification for tuning only NTSC

2. H/W Outline.

1) ROM : 28,672 x 8bits.tsc
: 15,872 x 8 bits for CGROM.
2) RAM : 512 x 8bits.
: 352 x 9bits.(for CRT Display)
3) OSD Function.

- Screen Display. : 36 characters x 16 lines.(by software)
- RAM : 352 words. (9 bits per word)
  Display area. : 36 words. x 8 lines.
  1st control area. : 8 words. x 8 lines.
- Characters.
  244 patterns programmable.
  Up to 244 kinds of 16 x 17 dot characters.
  Up to 244 kinds of 8 x 9 dot characters.
  or
  Up to 244 kinds of 16 x 32 dot characters used 16K bytes.
- Various characters attributes.
  Character colors. : 16 colors
  Character background colors. : 16 colors
  Fringe / shadow colors. : 16 colors
  Full screen colors. : 16 colors
  Rounding.
  Underline.
  Italic character.(slanting)
- Attribute can be changed without spacing.
- Vertical display start line number can be set for each row independently.(Row can be overlapped.)
- Horizontal display start position can be set for each row independently.
- Different display modes can be set for each row independently.
  Caption and Text mode/ OSD mode 1/ OSD mode 2(Quarter size)/ Simplified graphic mode.
- Ten character sizes.
  Horiz. x Vert. = (1x1),(1x2),(2x2),(2x4),(0.5x0.5)
  (1.5x1),(1.5x2),(3x2),(3x4),(0.75x0.5)
- Shuttering and scrolling on each row.

3. System Feature.

1) The system for TV tuning is Frequency Synthesis type.
2) Closed Captions function is interior designed.

3) On Screen Displays function is interior designed.
4) Package. : 36 PIN SDIP.
5) Tuner (Pre-scaler.) : I^2C Bus.
/PLL IC : TAU 6014-S(SIEMENS).
6) Remocon. : The IC of Transmission (MITSUBISHI M50560)
7) E^2PROM. : 24C04(I^2C Bus) ◊ Apply one byte Read/Write mode.
8) 6-Local Key. : A/D Input Control.(Power, Ch Up/Down, Vol Up/Down, Menu)
9) Option S/W : Port Input Option Check.
10) IF/V/C/D IC :DTC814(LA79814)

4. Function.

1) C. C. D. function.
- A section of C. C. D. operates FCC based specification.

2) C. C. D. controlled function.
- Closed Caption Mode. (Off<-->C1<-->C2<-->T1<-->T2<-->Off)
- CC On Mute.(Off <-->C1<-->C2<-->Off)
- Closed Caption is prior to CC On Mute.

3) Tuning Function.
- I^2C Bus.
- PLL IC Interface.
- FS 181 Channel (AIR 2-69CH, CABLE 1-125CH)
- AFT Operation(Fine Tuning) -2.5Fn+2.5MHz
- AIR/CABLE (STD, HRC, IRC). Only Cable 5,6CH is that AFT range is cover over broad-band. -2.5MHzFn+3.5MHz..
- Memorize Channels.(If a channel is broadcasting, the channel is memorized.)
- Direct Tuning(09KEY)
- Channel Up/Down.(Memorized Channels) -> The Ch Up/Down buttons on the Remocon and on the front panel are same function.
- Search Channel Up/Down.(If No-Memory or only 1CH is Memory)
- Channel Memory.(ADD/DELETE)
- Channel Review Function.
- Last Channel Memory Function.

4) OSD Function.
- In Line(Video) Mode, Things(Items) that is concerned with Air and Cable disappear in the Menu.
- Channel, AV display.
- Small & Graphic ICON Menu.
- Volume / Picture control --> I^2C Bus Control

5) The Others Function.
- Video/Audio Mute Function.
- If a Channel is no signal, after 15 minutes is Auto-Power Off Function.

- Auto Power On Function.(Power Restore function in the Special Menu)
- Heat Run Function. --- OSD White Back-Ground
- Sleep Timer.
- Wake Up Time Function.
- Off Time Function.
- Remote Reception & Control.
- Auto Tint.---------- (Option)
- Power Restore.
- Input(TV/Line) Controlled function. ---------- (Option)
- Reception.(Air/Cable : Factory Initial Condition)
- Blue Background.----------(Option)
- 3-Language (North America : ENG/SPA/FRA, South America : ENG/SPA/POR).
- E^2PROM Interface (I^2C Bus Control)
- CH 6 TRAP Function.(IS-31)
- PLL IC Band Data.(Control Byte 2-->P3~P0)

  VHF L : 1

  VHF H : 2

  CH6 TRAP : 5 (IS-31) AIR(Cable) CH 6 Only

  UHF : 8

5. The Table of Option and Schedule.

Model Name	Pin	Option	Application	Reference
CN - 001N	#30	Auto Tint	O	- Low(DC_0V) : ON(Auto Tint)
				- High(DC_5V) : OFF
	#32	Bule Back	O	- Low(DC_0V) : Blue Back
				- High(DC_5V) : No Blue Back
	#33	Prison	O	- Low(DC_0V) :Normal
				- High(DC_5V) : Prison
	#34	Mono/Stereo	O	- Low(DC_0V) : Mono
				- High(DC_5V) :Stereo
	#35	Caption	X	- No Use.
				- No Use.
	#36	TV only	O	- Low(DC_0V) :TV/Video
				- High(DC_5V) :TV/Only
Tatal Sun			6	- Use. (No Use.)

6. Pin Description

<table>
<tr><th>PIN</th><th>Terminal</th><th>Name</th><th>Explanation</th><th>Remarks</th></tr>
<tr><td>1</td><td>P10/SDA0</td><td>ROM Data Main IC Data</td><td rowspan="4">6 bit input/output port
Input/output can be Specified for each bit
Other function.
<table><tr><td>P10</td><td>IIC0 data I/O</td></tr><tr><td>P11</td><td>IIC0 clock output.</td></tr><tr><td>P12</td><td>IIC1 data I/O</td></tr><tr><td>P13</td><td>IIC1 clock output.</td></tr></table></td><td rowspan="4"></td></tr>
<tr><td>2</td><td>P11/SCLK0</td><td>ROM CLK Main IC CLK</td></tr>
<tr><td>3</td><td>P12/SDA1</td><td>Tuner Data</td></tr>
<tr><td>4</td><td>P13/SCLK1</td><td>Tuner CLK</td></tr>
<tr><td>5</td><td>VSS</td><td>GND</td><td>GND
Negative power supply.</td><td></td></tr>
<tr><td>6</td><td>XT1</td><td>XT1</td><td rowspan="2">It uses 32.768KHz X-TAL.
10 pin is input terminal for crystal oscillator.
11 pin is output terminal for crystal oscillator.</td><td rowspan="2"></td></tr>
<tr><td>7</td><td>XT2</td><td>XT2</td></tr>
<tr><td>8</td><td>VDD</td><td>VDD</td><td>+5V (0.5V)
Positive power supply.</td><td></td></tr>
<tr><td>9</td><td>P04/AN4</td><td>KEY-IN</td><td>Power, Ch up/down, Vol up/down, Menu</td><td></td></tr>
<tr><td>10</td><td>P05/AN5</td><td>AFT-IN</td><td>Dc value that comes from the 10 pin of LA76810/14</td><td></td></tr>
<tr><td>11</td><td>P06/AN6</td><td>AGC-IN</td><td>Connect this port to AGC of Tuner
Default Voltage : 3.75V
Variable Voltage : 3.25V, 3.5V, 4.0V</td><td></td></tr>
<tr><td>12</td><td>P07/AN7</td><td>ST-BY(H)</td><td>Use only japan Model.
This port uses when is Stand - By status
Condition : Input AC Power On
Power off : High (DC 5V) Output. (Red)
Power on : Low (DC 0V) Output.</td><td></td></tr>
<tr><td>13</td><td>/FES</td><td>/RES</td><td>Reset terminal.
Active Low</td><td></td></tr>
<tr><td>14</td><td>FILT</td><td>Filter</td><td>Filter terminal for PLL
Output terminal</td><td></td></tr>
<tr><td>15</td><td>CVIN</td><td>CVSB IN</td><td>Video signal input terminal</td><td></td></tr>
<tr><td>16</td><td>P01</td><td>TV/VID</td><td>TV Mode : High Line(Video) Mode : Low</td><td></td></tr>
<tr><td>17</td><td>/VS</td><td>/VS</td><td>Vertical synchronization signal input terminal</td><td></td></tr>
<tr><td>18</td><td>/HS</td><td>/HS</td><td>Horizental synchronization signal input terminal</td><td></td></tr>
<tr><td>19</td><td>R</td><td>R</td><td>Red output terminal of RGB image</td><td></td></tr>
<tr><td>20</td><td>G</td><td>G</td><td>Green output terminal of RGB image</td><td></td></tr>
</table>

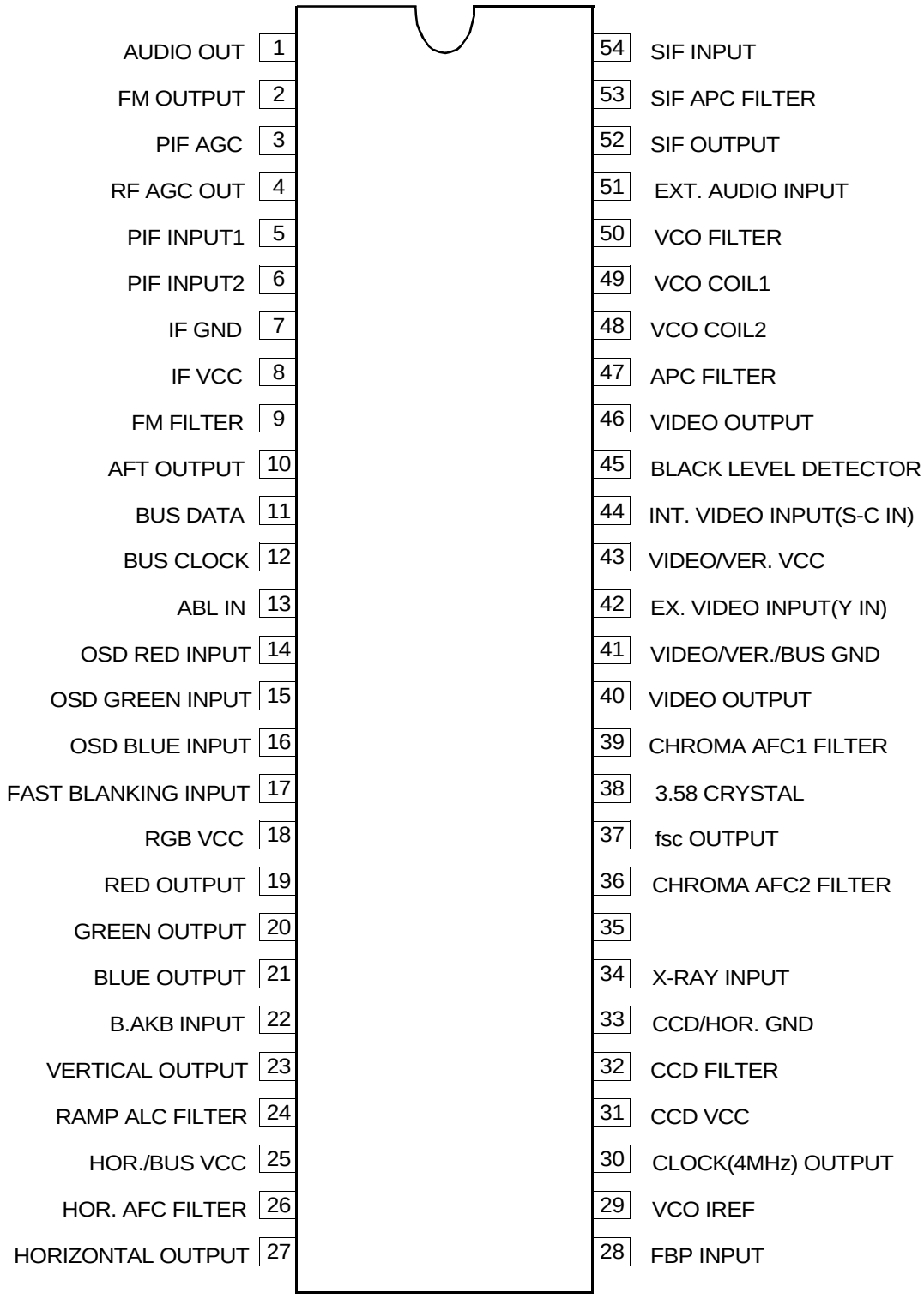
PIN	Terminal	Name	Explanation
21	B	B	Blue output terminal of RGB image
22	BL	BL	Fast blanking control signal Switch TV image Signal and caption / OSD image signal Output terminal
23	P31	Audio Mute	Use only read data of LA76814/10
24	P32	Power On	Use when does power off/on Power off: Output Low(DC 0V) Power on: Output High(DC 5V)
25	P70/INT0	Bus Stop	No Use
26	P71/INT1	Relay On/Off	Relay On/Off Terminal
27	P72/INT2	A/V Detection	Detect port of Front A/V
28	P73/INT3	Remocon In	Input of Remocon Signal
29	P14/PWM1	RF(H)/AV(L)	High: RF only mode Low: RF/AV mode
30	P15/PWM2	AUTO TINT	Low (DC-0V) : On(Auto Tint) High (DC-5V) : Off
31	P16/PWM3	PWM VOLUME	Use only to control Sound of Stereo mode
32	P17	BLUE BACK	High (DC-5V) : No Blue Back Low (DC-0V) : Blue Back
33	P00	PRISON	Low (DC-0V) : Normal High (DC-5V) : Prison
34	P01	MONO/STEREO	Low (DC-0V) : Mono High (DC-5V) : Stereo
35	P02	CAPTION	No Use
36	P03	TV ONLY(H)	Low (DC-0V) : TV/Video High (DC-5V) : TV Only

Output form and existence of pull- up resistor for every port can be specified for each bit.
At port 1, Programable pull- up resistor provided when specifing either COOS or N- ch open drain output.
Port status in reset.

Teriminal	I/O	Pull- up resistor status at selection pull- up option.
Port 0	I	Pull- up resistor OFF, ON after reset release.
Port 1	I	Programmable pull- resistor OFF.

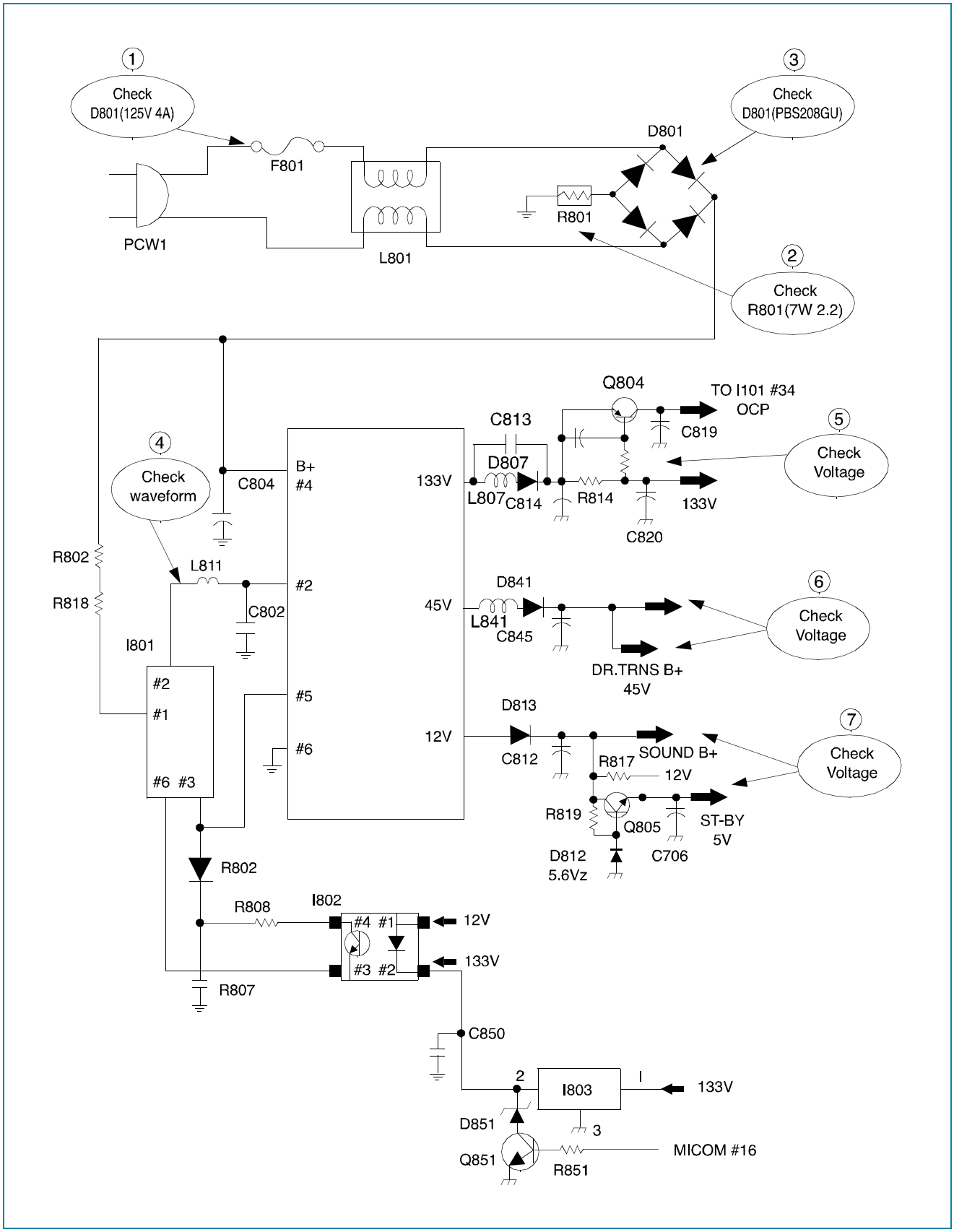
I101

DCT814(LA76814) : IC VIDEO PROCESSOR



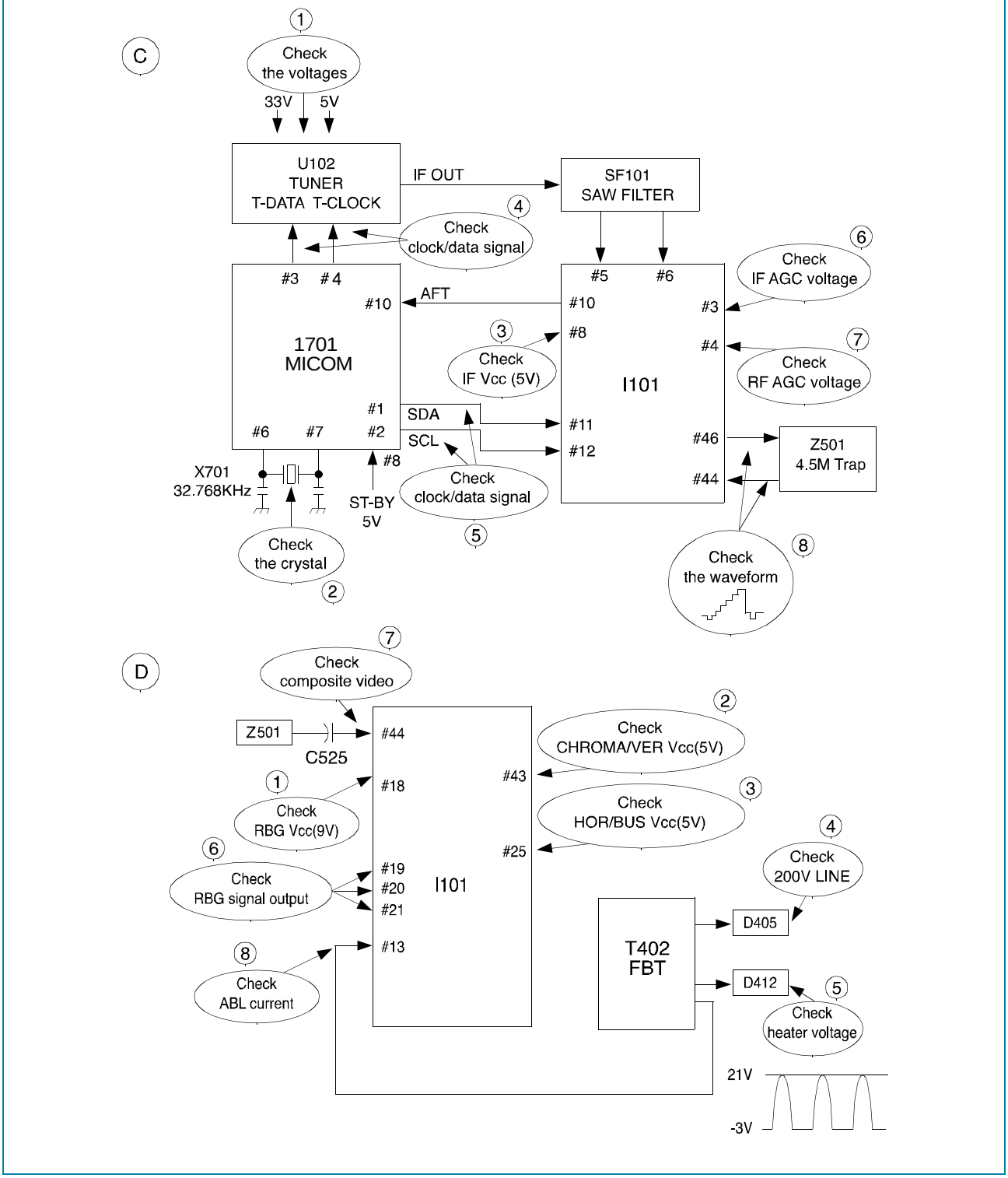
TROUBLESHOOTING GUIDE

1. NO POWER



2. NO PICTURE

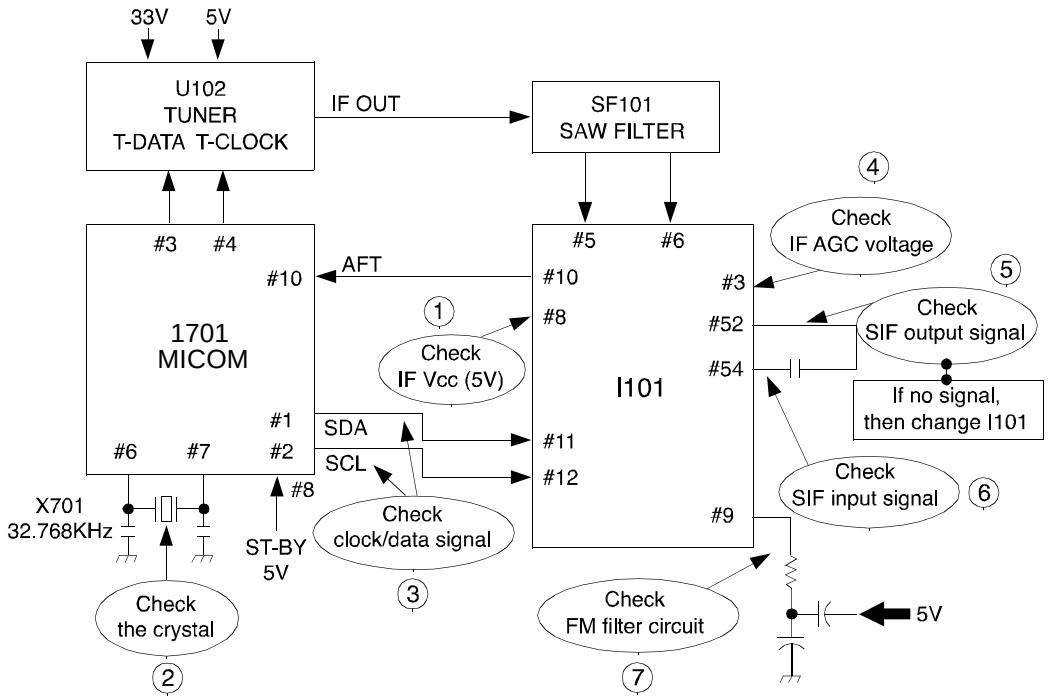
Check the waveform of I101 #46	NG : GO to the figure ⓒ
	OK : Go the figure ⓓ



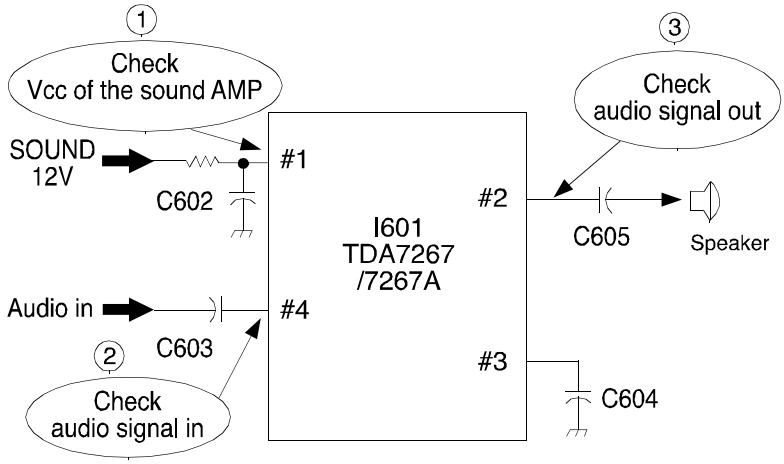
3. NO SOUND

Check audio output signal of I101 #1	NG : Go to the figure ⓔ
	OK : Go to the figure ⓕ ⓖ

E

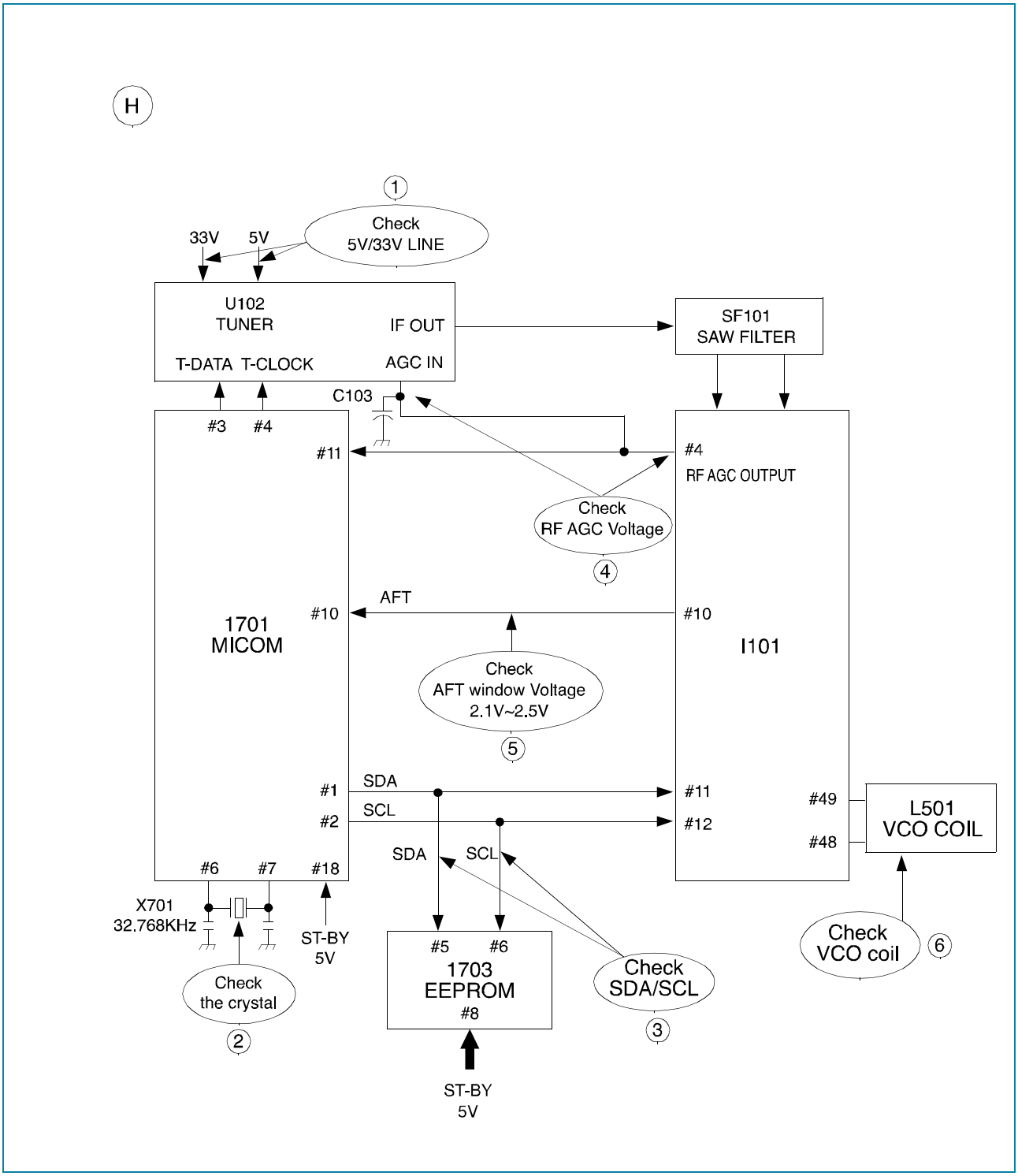


F (MONO ONLY)

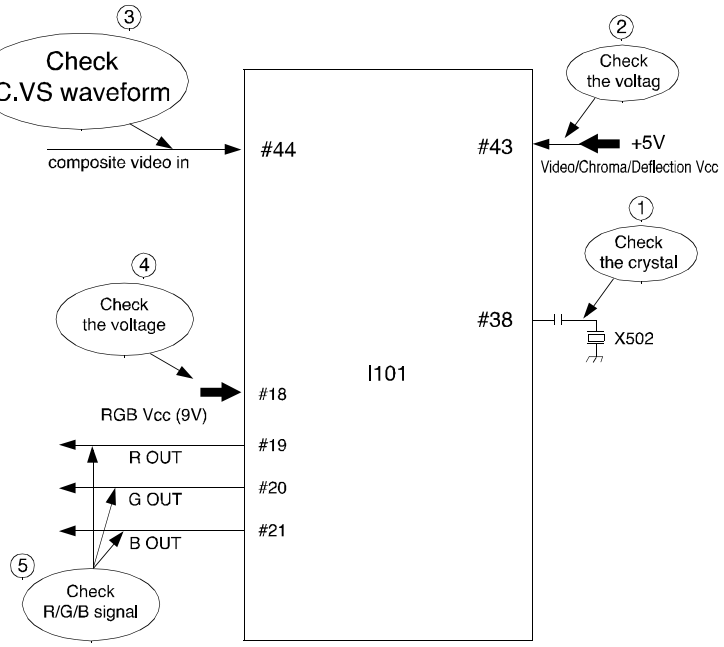


4. CH DON'T STOP

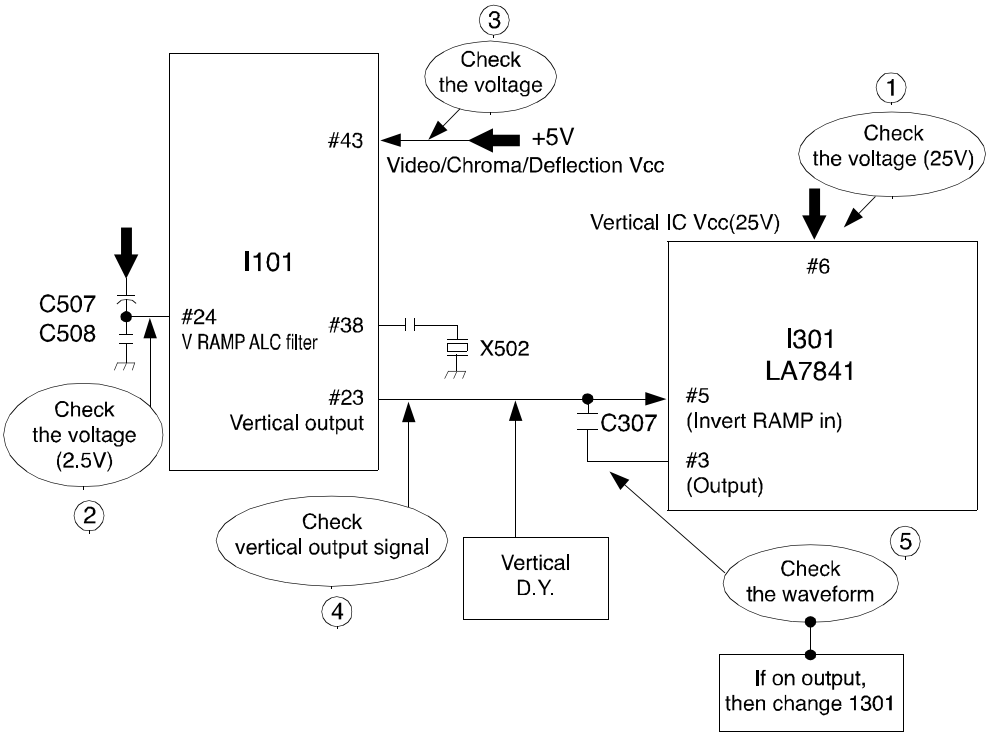
Check the input signal conditions	NG : Loss of signal or weak signal
	OK : Go to the figure ⓗ



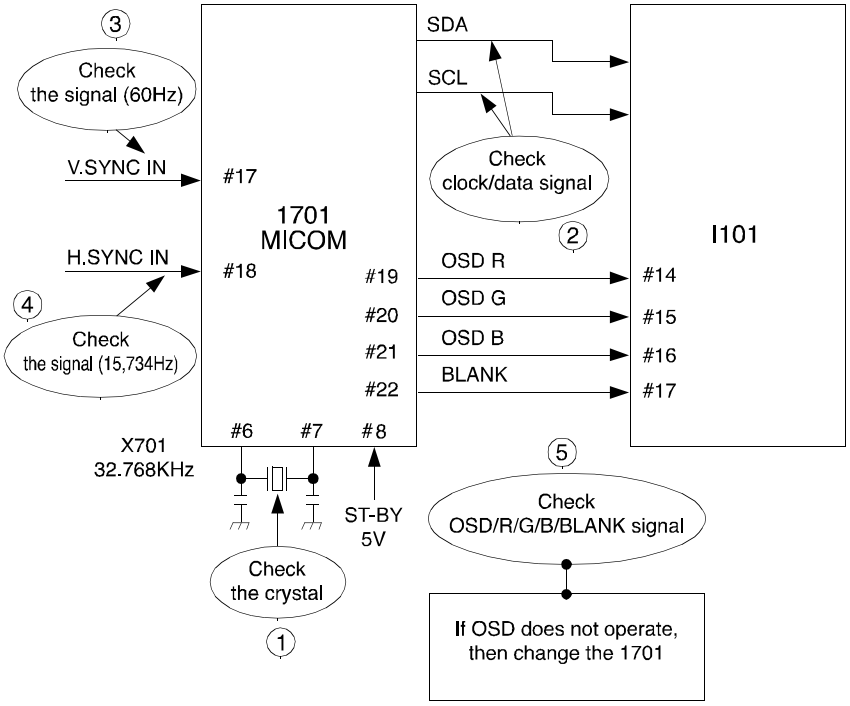
5. NO COLOR



6. NO VERTICAL DEFLECTION



7. NO ON-SCREEN DISPLAY



8. REMOTE CONTROL DOES NOT OPERATE